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Farm and Ranch Irrigation Survey (2013)

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Introduction

PURPOSE AND SCOPE

Selected irrigation data for on-farm irrigation operations have been collected in the census of agriculture since 1890. Surveys of irrigation in humid areas were taken in connection with the 1954 and 1959 censuses.

The 2013 Farm and Ranch Irrigation Survey (FRIS) is the eighth survey devoted entirely to collecting on-farm irrigation data for the U.S. The 1979, 1984, 1988, and 1994 surveys were conducted by the U.S. Department of Commerce, Bureau of the Census. Responsibility for the survey was transferred from the Bureau of the Census to the U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) in 1997. The 1998 survey utilized the resources of the 45 NASS field offices which expanded opportunities for telephone follow-up or personal enumeration of nonresponse cases. The 1998 Farm and Ranch Irrigation Survey was the first survey to collect and publish data for each of the 50 States. Previous farm and ranch irrigation surveys published data only for leading irrigation States, with a U.S. total, excluding Alaska and Hawaii. In 2008, horticultural specialty operations with sales of $10,000 or greater were included in the survey for the first time.

USES OF SURVEY DATA

The 2013 Farm and Ranch Irrigation Survey provides data that supplement the basic irrigation data collected from all farm and ranch operators in the 2012 Census of Agriculture. Irrigation data from this survey combined with 2012 census data provide one of the most complete and detailed profiles of irrigation in the U.S.

Survey data are used by producers, farm organizations, businesses, State departments of agriculture, elected representatives and legislative bodies at all levels of government, public and private sector analysts, the news media, and colleges and universities. The data are used to:

- Compare water use by application method;
- Develop improved technologies;
- Develop Federal programs;
- Appraise water use trends;
- Assess impact of congressional legislation; and
- Evaluate the impact of irrigated crops by State.

AUTHORITY

The census of agriculture is required by law under the "Census of Agriculture Act of 1997," Public Law 105-113 (Title 7, United States Code, Section 2204g). The law authorizes the Secretary of Agriculture to conduct surveys deemed necessary to furnish annual or other data on the subjects covered by the census. The 2013 Farm and Ranch Irrigation Survey was conducted under the provisions of this section.

FARM DEFINITION

A farm is any place from which $1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census or survey year.

DATA COMPARABILITY

In Tables 2 through 39, the State level FRIS data are not comparable between 2013 and 2008. In the 2008 survey, operations that reported any horticultural sales in the 2007 Census of Agriculture were not included in the General FRIS data tables. In the 2013 survey, operations with horticultural sales in the 2012 Census of Agriculture were included in all FRIS tables.

To provide a measure of comparability, the published 2008 U.S. level data were adjusted to include the horticulture operations' data. See Appendix A, Statistical Methodology for a detailed discussion of data comparability.

WATER RESOURCES REGIONS MAP

The map on page 1 shows Water Resources Regions delineated to approximate actual basin boundaries based on topographic drainage characteristics. Data are tabulated separately for each of the 20 Water Resources Regions shown on the map.

PERCENT OF NORMAL PRECIPITATION MAPS

The maps on pages 2 through 5 show the areas of the U.S. with deviations from normal precipitation during 2013. The maps are included for reference purposes only.

TABLES AND APPENDICES

The FRIS tables are divided into three sections: Entire Farm, Crops Grown in the Open and Pasture, and Horticultural Operations.

Entire Farm Data Tables. Table 1 shows farms and acres irrigated for the 1997 through 2012 Censuses of Agriculture for each State. Tables 2 through 27 present detailed irrigation data collected in the farm and ranch irrigation survey from operations that reported irrigated land in the 2012 census and also in the 2013 survey. Excluded from these data are institutional, research, and experimental operations. Table 27 presents data for farm operations that irrigated in 2012 but discontinued irrigation either temporarily or permanently in 2013 while continuing to operate a farm or ranch. Comparable adjusted 2008 U.S. level survey data are also presented in some tables. Data are reported at the national level, for each State, and for the 20 Water Resources Regions.

Crops Grown in the Open and Pasture Data Tables. Tables 28 through 39 present detailed 2013 irrigation data collected on crops grown in the open and pasture. Excluded from these data are institutional, research, and experimental operations, and water use and area of crops grown under protection. Data are reported at the national level and for each State.

Horticultural Operations Data Tables. Tables 40 through 45 present detailed 2013 irrigation data collected on horticultural crops grown under protection. Data are from horticultural operations that reported irrigating in the 2012 census and also in the 2013 survey. Data are reported at the national level and for each State.

Appendix A. Provides information about data collection and data processing activities and discusses the statistical methodology used in conducting and evaluating the survey. Table A provides the general 2013 FRIS sample counts and the sample's corresponding 2012 census irrigated acreage. It also provides the general 2013 FRIS unexpanded and expanded acres irrigated and 2012 census acres irrigated. Table B provides a comparison of the irrigated acres published in the 2012 Census of Agriculture and expanded 2013 FRIS acres irrigated by size group. Table C provides the standard error for selected data for irrigated crops grown in the open in 2013. Table D provides the standard error for selected horticultural data in 2013.

Appendix B. Provides information about the development of the report form. It also contains the definitions of specific terms and phrases used in this publication, including items in the publication tables that carry the note "see text." The facsimiles of the report form and the instruction sheet used to collect the FRIS data are included. Table A provides irrigated acreage and rank for the previous three censuses.

RESPONDENT CONFIDENTIALITY

In keeping with the provisions of Title 7 of the United States Code, no data are published that would disclose information about the operations of an individual farm or ranch. All tabulated data are subjected to an extensive disclosure review prior to publication. Any tabulated item that identifies data reported by a respondent or allows a respondent's data to be accurately estimated or derived, was suppressed and coded with a 'D'. However, the number of farms reporting an item is not considered

confidential information and is provided even though other information is withheld.

SPECIAL STUDIES AND CUSTOM TABULATIONS

The 2013 Farm and Ranch Irrigation Survey data, as well as the 2012 Census of Agriculture Volume 1 Geographic Area Series and related reports, are available on the NASS website at www.nass.usda.gov.

Custom-designed tabulations may be developed when data are not published elsewhere. These tabulations are developed to individual user specifications on a cost-reimbursable basis and shared with the public. Quick Stats, NASS's online database that allows data users to build customized queries, should be investigated before requesting a custom tabulation.

All NASS publications and custom tabulations are subject to a thorough disclosure review prior to release to prevent the disclosure of any individual respondent data. Requests for custom tabulations can be submitted via the internet from the NASS home page, by mail, or by e-mail to:

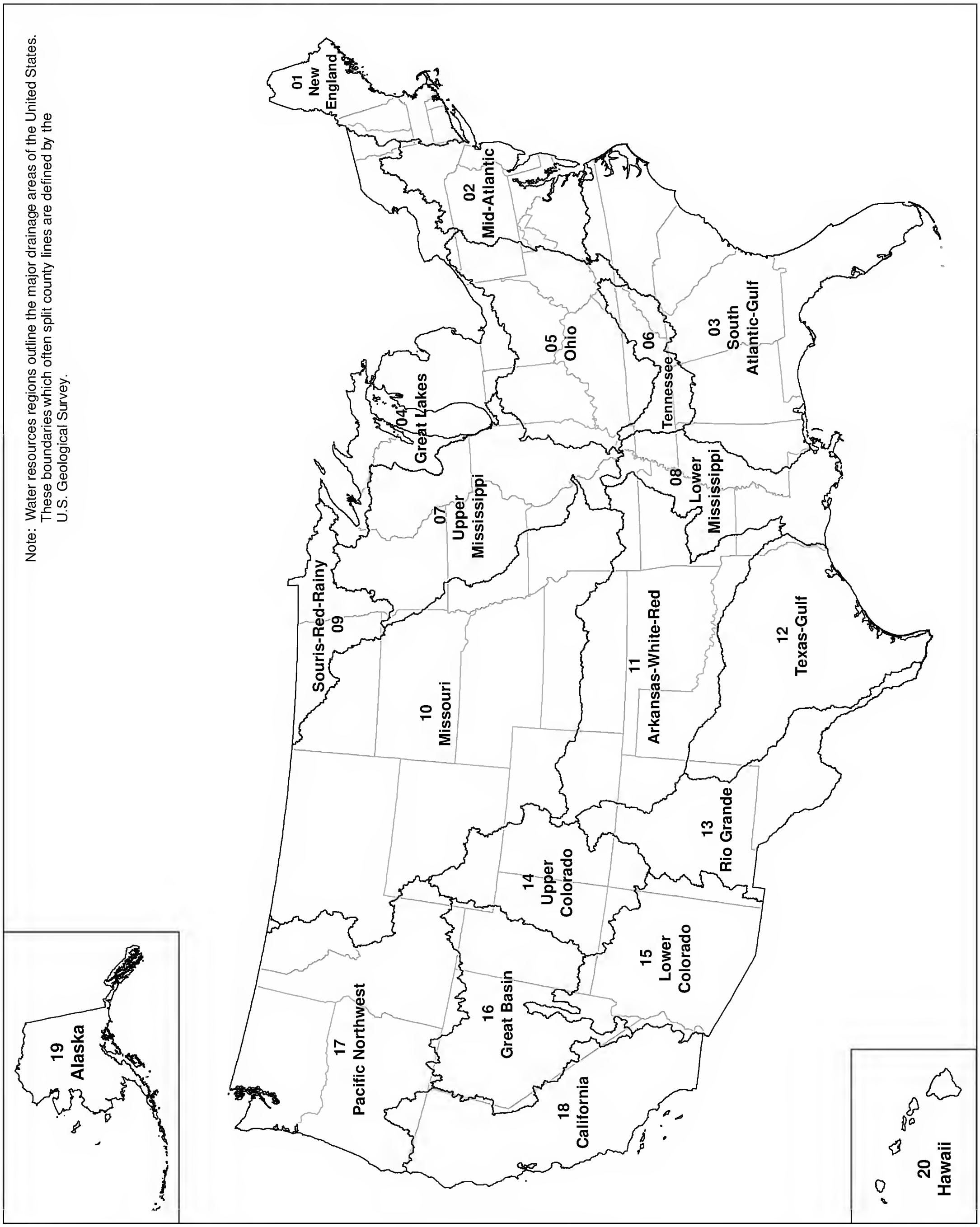
DataLab
National Agricultural Statistics Service
Room 6436A, Stop 2054
1400 Independence Ave, S.W.
Washington, D.C. 20250-2054
or
Datalab@nass.usda.gov

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

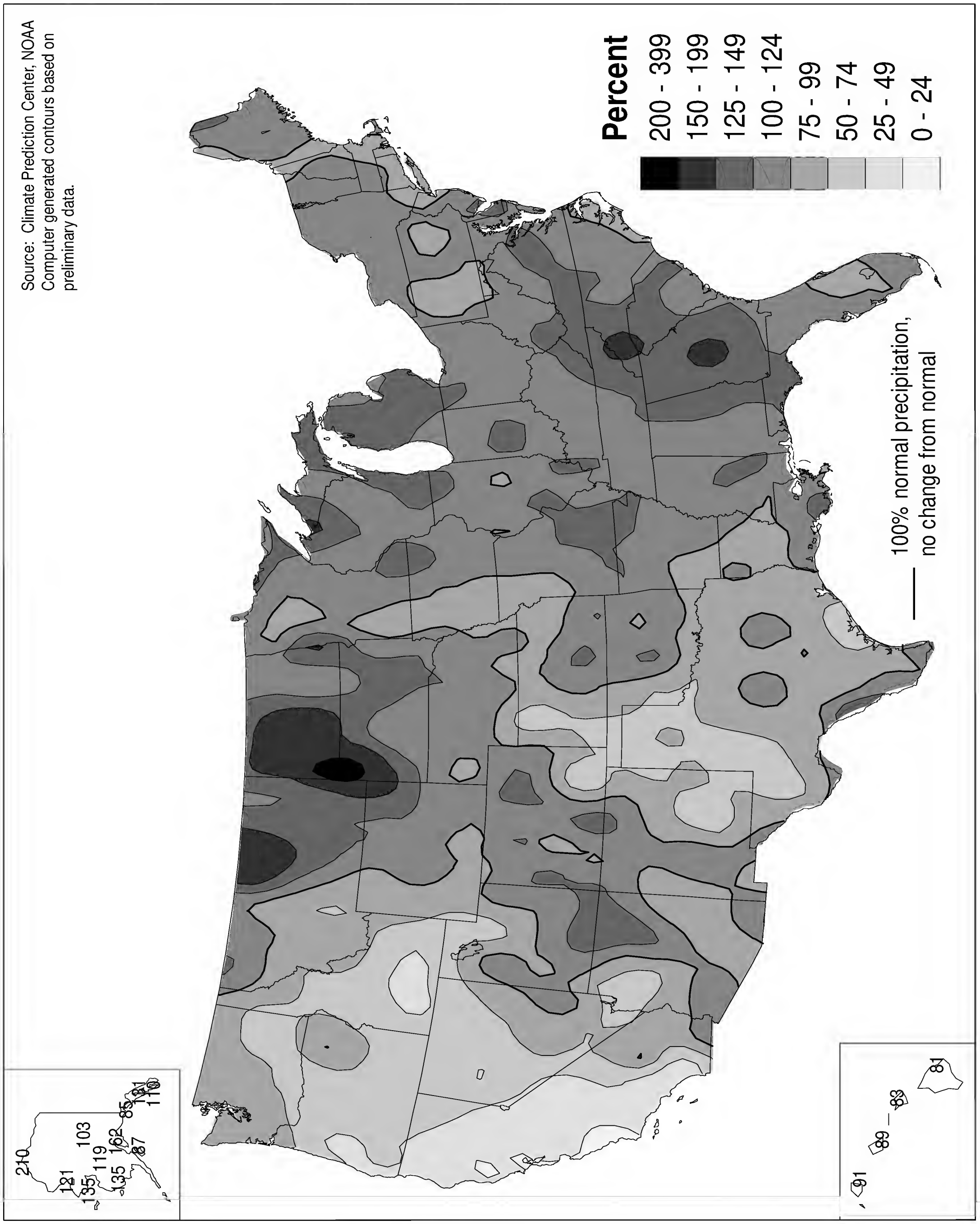
-	Represents zero.
(D)	Withheld to avoid disclosing data for individual farms.
(H)	Coefficient of variation is greater than or equal to 99.95 percent or the standard error is greater than or equal to 99.95 percent of mean.
(L)	Coefficient of variation is less than 0.05 percent or the standard error is less than 0.05 percent of the mean.
WRR	Water Resources Regions.
(NA)	Not available.
(X)	Not applicable.
(Z)	Less than half of the unit shown.
(cwt)	Hundredweight.
gpm	Gallons per minute.
psi	Pounds per square inch.
sq. ft.	Square feet

Water Resources Regions Map of the United States

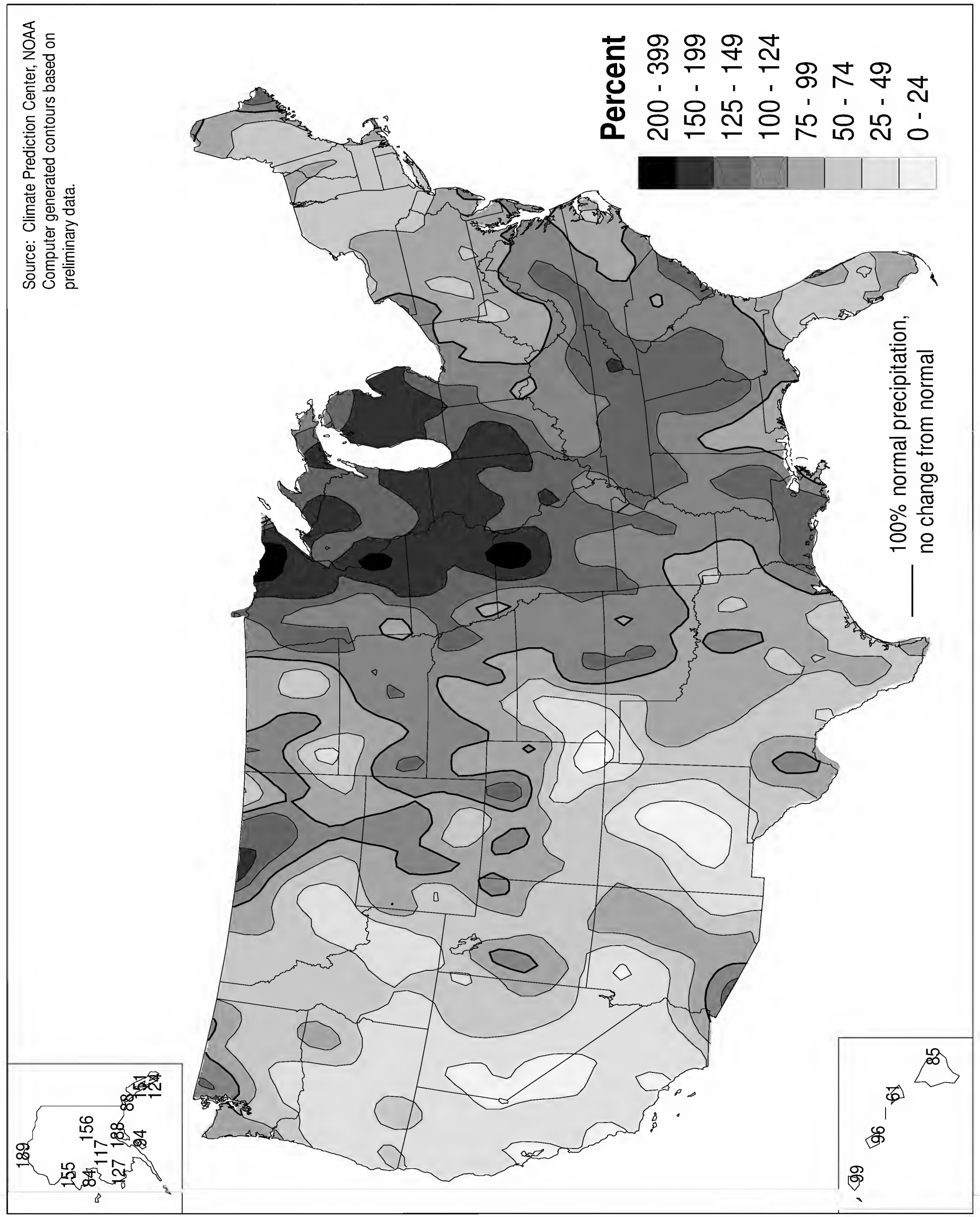


Note: Water resources regions outline the major drainage areas of the United States.
These boundaries which often split county lines are defined by the
U.S. Geological Survey.

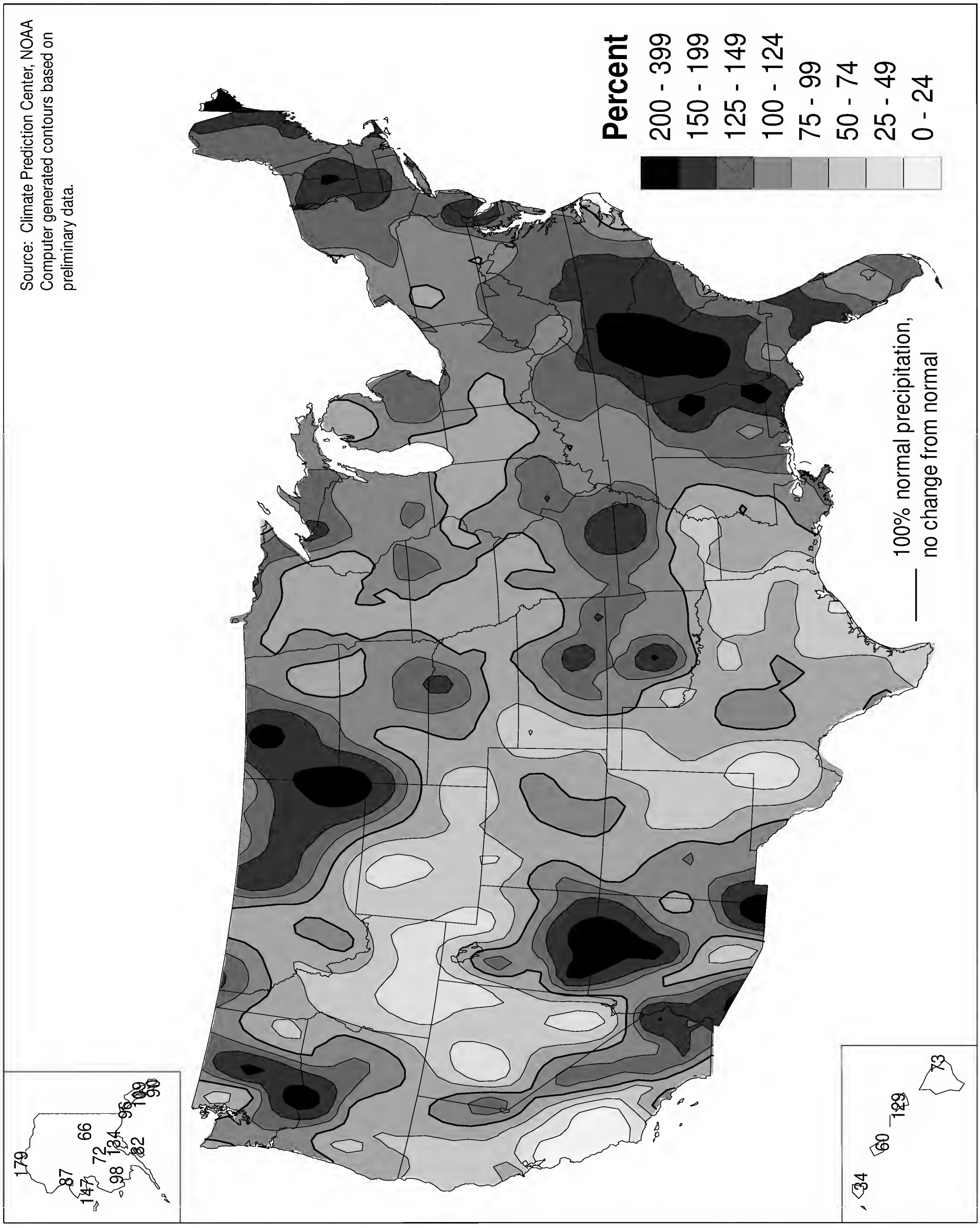
Percent of Normal Precipitation, January - December, 2013



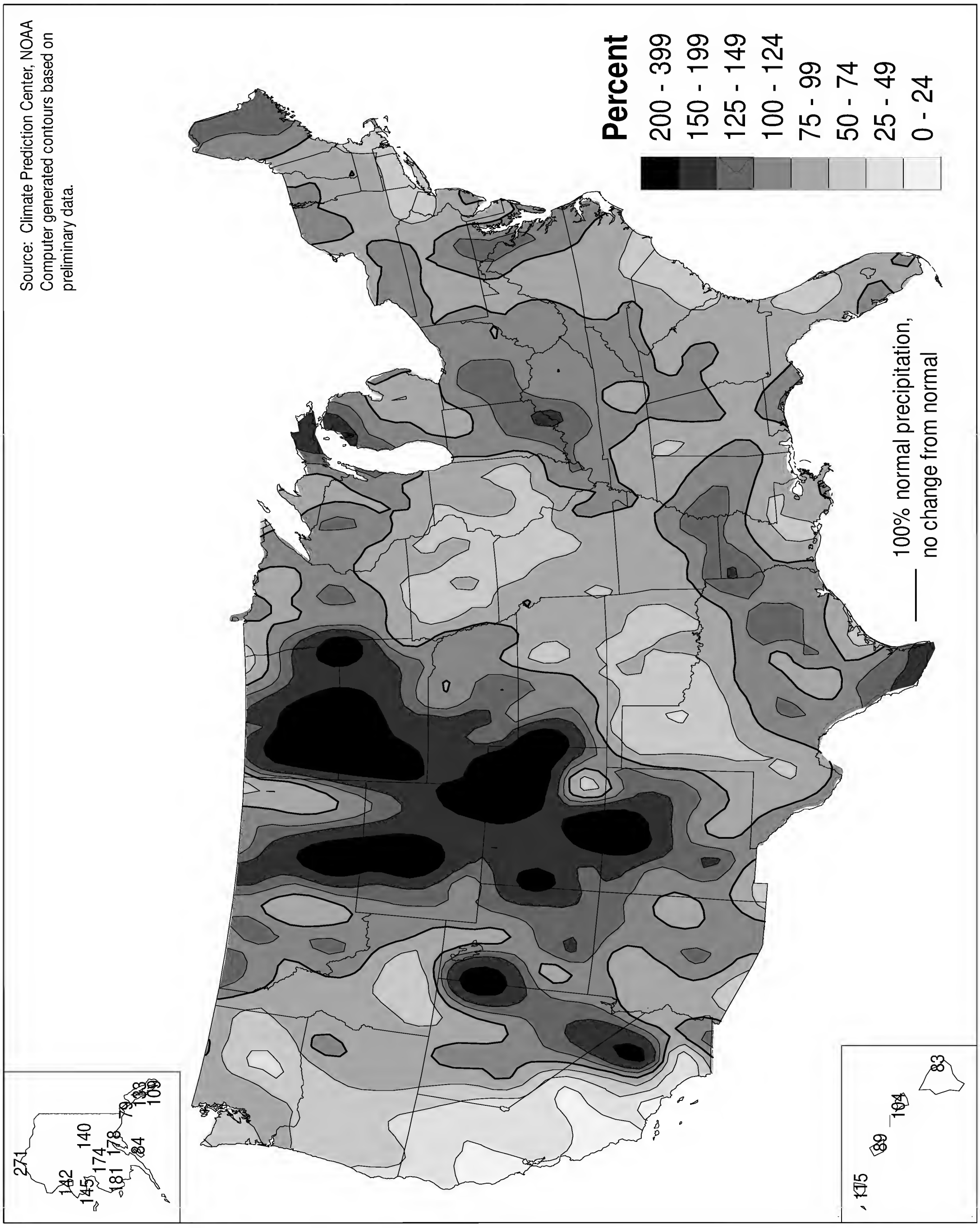
Percent of Normal Precipitation, January 1 - April 30, 2013



Percent of Normal Precipitation, May 1 - August 31, 2013



Percent of Normal Precipitation, September 1 - December 31, 2013



Source: Climate Prediction Center, NOAA
Computer generated contours based on preliminary data.

Table 1. **Irrigated Farms in the Censuses of Agriculture: 2012 and Earlier Censuses**

Geographic area	2012		2007		2002		1997		1997 not adjusted for coverage	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States	296,303	55,822,231	301,028	56,599,305	299,583	55,311,236	308,818	56,289,172	279,442	55,058,128
Alabama	1,747	113,008	2,035	112,819	1,698	108,783	1,503	79,647	1,301	76,871
Alaska	230	2,451	184	3,730	150	2,742	114	2,667	114	2,667
Arizona	5,839	880,613	5,094	876,158	4,172	931,735	4,233	1,075,336	3,426	1,013,902
Arkansas	5,084	4,803,902	5,393	4,460,682	5,847	4,149,766	6,887	3,785,338	6,593	3,717,217
California	53,546	7,861,964	53,400	8,016,159	55,596	8,709,353	63,226	8,886,693	55,920	8,712,893
Colorado	15,547	2,516,785	15,774	2,867,957	13,623	2,590,654	15,747	3,374,233	15,470	3,430,129
Connecticut	1,011	9,272	789	9,901	801	10,139	809	7,689	674	7,366
Delaware	533	127,272	560	104,562	439	97,167	430	75,024	415	72,635
Florida	11,744	1,493,320	12,868	1,552,118	13,456	1,815,174	14,573	1,873,823	12,673	1,862,404
Georgia	5,230	1,125,355	5,716	1,017,773	5,369	870,810	4,752	773,066	4,372	748,520
Hawaii	2,498	81,813	2,810	58,635	2,231	69,194	2,241	76,971	2,241	76,971
Idaho	15,732	3,365,292	16,124	3,299,889	15,901	3,288,522	16,683	3,543,805	15,191	3,493,542
Illinois	2,644	522,479	2,388	474,454	2,031	390,843	2,072	351,676	2,021	349,799
Indiana	2,598	437,445	2,391	397,113	2,212	313,130	1,918	255,917	1,753	250,050
Iowa	1,525	171,656	1,287	189,518	976	142,109	1,006	133,149	957	124,983
Kansas	6,205	2,881,292	5,957	2,762,748	5,915	2,678,277	6,109	2,695,816	6,135	2,707,489
Kentucky	2,910	73,573	2,980	58,730	3,606	36,751	4,233	60,027	4,104	58,490
Louisiana	3,015	1,092,881	3,218	954,353	3,496	938,841	3,784	960,831	3,400	942,528
Maine	1,365	30,887	901	20,994	1,031	19,703	805	22,229	671	21,791
Maryland	1,220	104,910	1,326	92,805	1,265	80,828	1,198	68,663	1,154	68,588
Massachusetts	1,746	23,433	1,630	23,133	1,580	23,720	2,021	26,820	1,630	24,564
Michigan	5,025	592,243	5,078	500,428	4,413	456,278	4,123	407,071	3,752	393,485
Minnesota	2,853	524,016	2,918	506,357	2,433	454,850	2,265	403,289	2,193	380,394
Mississippi	2,454	1,651,978	2,284	1,368,661	2,235	1,175,530	1,912	1,110,145	1,769	1,076,231
Missouri	3,727	1,180,886	3,613	1,199,981	3,304	1,032,973	3,108	921,113	2,891	881,924
Montana	9,451	1,903,019	10,457	2,013,167	10,150	1,976,111	10,098	2,101,548	9,059	1,994,484
Nebraska	17,136	8,296,573	17,128	8,558,559	17,970	7,625,170	19,297	7,065,556	18,804	6,939,036
Nevada	2,512	687,790	2,054	691,030	1,981	746,653	2,296	763,742	2,159	764,738
New Hampshire	686	2,630	505	2,482	451	2,292	506	2,838	429	2,691
New Jersey	1,769	88,376	2,055	95,277	2,124	96,893	2,222	94,380	2,089	92,965
New Mexico	11,430	680,318	10,167	830,048	8,282	844,799	8,953	851,735	7,444	804,616
New York	3,404	59,807	3,036	68,010	3,307	74,663	2,835	73,791	2,501	69,197
North Carolina	4,699	174,526	5,788	232,075	6,721	264,057	5,059	156,315	4,695	156,250
North Dakota	744	218,407	795	236,138	659	202,817	730	183,004	710	180,362
Ohio	2,462	46,569	2,402	37,959	2,623	40,685	1,967	35,073	1,778	33,997
Oklahoma	2,500	479,750	3,026	534,768	2,942	517,553	2,860	509,109	2,710	506,459
Oregon	14,975	1,629,735	16,792	1,845,194	17,776	1,907,627	17,016	1,963,478	15,348	1,948,739
Pennsylvania	4,539	38,990	3,958	37,786	4,108	42,516	3,554	40,089	2,814	36,150
Rhode Island	325	3,954	313	4,306	264	3,963	211	3,333	180	3,265
South Carolina	1,973	159,239	2,030	132,439	1,918	95,642	1,435	88,898	1,248	86,477
South Dakota	1,656	378,678	1,627	373,842	1,755	401,083	1,555	367,195	1,439	343,742
Tennessee	2,146	146,442	2,453	81,405	2,592	61,217	1,985	47,010	1,768	45,581
Texas	18,169	4,489,163	19,713	5,010,416	21,164	5,074,638	21,106	5,764,295	18,756	5,484,663
Utah	12,296	1,104,257	12,492	1,134,144	11,587	1,091,011	12,230	1,218,474	11,291	1,212,201
Vermont	766	3,565	523	2,295	508	2,335	409	2,845	333	2,570
Virginia	2,456	68,651	2,347	82,187	3,331	98,913	2,509	86,388	2,337	84,926
Washington	14,736	1,633,571	15,492	1,735,917	15,534	1,823,155	16,261	1,787,120	13,131	1,705,025
West Virginia	466	2,064	457	2,189	408	1,981	319	3,543	268	3,285
Wisconsin	3,240	421,721	2,907	377,291	2,457	385,902	2,269	358,467	2,025	341,813
Wyoming	5,739	1,435,710	5,793	1,550,723	5,191	1,541,688	5,384	1,749,908	5,306	1,719,463

Table 2. **Irrigated Farms by Acres Irrigated: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total			1 to 49 acres			50 to 99 acres			100 to 199 acres		
	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated
United States 2013	229,237	213,993,983	55,319,417	135,931	24,955,392	1,441,866	19,400	11,084,598	1,365,432	19,298	23,809,212	2,660,802
2008 [1]	235,715	(NA)	55,540,978	137,974	(NA)	1,554,673	18,472	(NA)	1,269,005	21,872	(NA)	3,079,611
2013 DATA												
Alabama	1,022	504,646	101,178	774	87,285	5,765	47	26,904	3,255	73	69,122	9,803
Alaska	181	7,717	1,071	178	6,277	(D)	1	(D)	(D)	-	-	-
Arizona	4,380	5,045,635	851,861	3,331	3,055,403	30,737	238	425,825	16,146	197	121,546	26,467
Arkansas	4,212	6,142,871	4,950,053	810	117,769	8,953	199	38,793	14,614	285	103,188	39,932
California	44,347	15,204,700	7,549,161	32,020	2,877,299	325,479	3,105	382,487	211,672	2,416	682,912	337,906
Colorado	12,501	11,929,608	2,309,543	6,963	1,588,626	115,486	1,526	772,445	108,349	1,191	740,876	154,318
Connecticut	715	42,815	5,371	704	36,426	2,547	3	(D)	(D)	2	(D)	(D)
Delaware	396	285,716	114,769	151	12,095	1,319	29	7,114	1,920	52	33,161	6,952
Florida	8,120	3,092,536	1,364,559	6,393	183,439	51,067	537	171,205	35,835	400	240,602	53,438
Georgia	3,545	3,157,131	1,196,947	1,571	159,194	15,595	237	70,273	16,028	286	193,672	40,887
Hawaii	1,919	237,937	76,459	1,868	75,432	8,367	14	(D)	(D)	10	(D)	(D)
Idaho	14,092	7,171,848	3,511,839	8,046	348,818	126,820	1,595	464,918	116,264	1,325	598,240	197,584
Illinois	1,807	1,711,314	541,818	738	52,855	3,512	165	96,450	11,704	246	214,813	35,350
Indiana	1,893	1,589,508	454,712	950	71,086	5,572	144	101,666	10,703	178	161,755	26,103
Iowa	1,090	689,083	175,847	623	77,291	2,895	93	52,133	6,723	140	126,773	18,736
Kansas	5,243	13,099,354	2,851,317	624	90,914	8,102	297	449,827	18,244	1,116	2,703,526	158,576
Kentucky	1,212	421,519	51,126	1,101	137,777	4,912	16	11,300	930	44	32,830	5,872
Louisiana	2,130	2,215,984	1,096,381	731	51,203	5,807	154	27,001	10,767	199	103,508	26,729
Maine	946	170,958	20,817	921	59,250	2,376	4	(D)	230	5	1,916	(D)
Maryland	890	330,962	100,909	585	33,349	4,242	63	(D)	4,610	71	52,615	10,040
Massachusetts	1,398	113,354	27,230	1,274	55,047	8,594	59	(D)	3,974	44	20,021	(D)
Michigan	3,662	1,567,036	587,850	2,372	181,350	19,420	302	113,288	23,448	290	157,585	39,344
Minnesota	2,162	1,686,988	516,724	851	153,652	6,851	262	107,484	18,822	423	319,126	57,797
Mississippi	1,843	2,768,094	1,701,587	532	86,790	5,872	106	50,966	7,904	137	81,178	19,634
Missouri	2,569	2,214,797	1,235,334	1,196	151,768	7,726	135	60,087	9,708	233	134,241	34,711
Montana	7,384	18,929,369	1,872,389	3,228	1,488,248	48,960	1,064	891,304	77,752	806	2,405,670	106,767
Nebraska	15,747	21,609,278	8,297,560	1,894	1,093,908	34,132	1,902	1,271,349	131,820	2,544	1,725,427	340,493
Nevada	2,149	4,514,652	689,953	992	45,728	14,092	320	73,652	21,462	171	86,251	22,088
New Hampshire	528	24,712	4,020	516	20,059	1,700	3	301	210	-	-	-
New Jersey	1,255	208,657	80,777	955	58,944	8,876	98	(D)	7,026	84	29,356	10,904
New Mexico	8,733	8,534,856	694,632	7,233	1,171,677	67,214	395	1,574,295	26,048	427	1,463,049	55,882
New York	1,936	317,725	48,705	1,719	166,589	9,515	87	26,090	5,853	81	37,328	9,056
North Carolina	2,710	853,125	136,721	2,194	182,166	15,025	203	71,232	14,146	110	114,467	12,874
North Dakota	533	1,404,283	213,728	90	41,200	681	69	207,389	4,905	77	165,085	10,603
Ohio	1,453	228,773	41,776	1,330	111,373	6,022	46	22,081	3,281	31	20,412	3,972
Oklahoma	1,672	2,594,056	426,602	748	195,974	6,826	124	141,730	7,922	256	325,742	32,914
Oregon	12,299	9,151,996	1,554,173	8,492	540,333	104,016	1,638	1,591,246	120,536	690	619,393	94,467
Pennsylvania	3,126	350,717	24,027	3,060	286,088	13,694	28	14,778	1,970	24	21,346	3,125
Rhode Island	294	10,557	3,042	282	6,331	1,346	4	546	336	8	3,680	1,360
South Carolina	1,046	486,463	133,927	764	89,568	5,585	64	21,899	4,152	69	49,785	9,833
South Dakota	1,274	2,634,711	369,864	270	43,492	3,898	104	66,055	7,487	337	536,836	46,398
Tennessee	1,108	823,553	146,932	826	86,346	4,226	29	16,555	2,015	65	98,369	8,431
Texas	13,259	31,127,299	4,491,987	6,560	8,082,455	84,026	512	323,269	34,439	1,299	5,057,695	192,013
Utah	10,357	4,734,792	1,125,106	6,610	327,296	96,866	1,334	495,528	90,615	1,145	585,772	159,400
Vermont	567	29,362	2,324	558	27,397	1,688	7	(D)	(D)	2	(D)	(D)
Virginia	1,342	358,107	50,100	1,176	116,660	6,700	47	(D)	3,076	55	38,950	7,501
Washington	10,575	4,347,898	1,623,389	7,478	249,885	77,977	1,056	139,497	78,082	602	151,252	82,005
West Virginia	297	45,652	1,453	291	42,112	(D)	4	(D)	(D)	1	(D)	(D)
Wisconsin	2,427	1,372,536	473,483	1,491	156,440	8,888	215	134,322	15,701	270	220,344	36,948
Wyoming	4,891	17,898,743	1,418,284	1,867	574,728	40,703	716	477,770	52,817	781	3,155,002	104,994
Water Resources Regions												
Region 01 New England	4,098	370,371	60,990	3,913	184,678	16,963	73	(D)	4,945	60	26,727	8,351
Region 02 Mid-Atlantic	7,325	1,532,811	391,761	6,110	486,922	38,824	316	104,049	22,024	348	199,877	44,986
Region 03 South Atlantic-Gulf	16,745	8,330,845	2,946,118	11,924	800,308	98,096	1,110	384,908	74,809	966	679,373	130,733
Region 04 Great Lakes	6,462	2,326,517	821,148	4,656	357,423	30,516	446	171,833	33,950	373	208,971	50,460
Region 05 Ohio	4,554	1,865,938	356,743	3,747	392,722	15,198	158	96,340	11,217	196	190,650	28,219
Region 06 Tennessee	1,139	390,596	57,924	1,001	106,532	(D)	13	4,891	(D)	41	(D)	(D)
Region 07 Upper Mississippi	6,665	4,846,746	1,534,692	3,171	346,415	18,533	682	376,416	48,709	1,006	828,844	139,682
Region 08 Lower Mississippi	7,682	11,604,745	8,013,711	1,276	67,860	12,415	419	95,380	31,146	667	344,620	93,109
Region 09 Souris-Red-Rainy	466	946,911	175,244	138	52,908	830	42	38,768	3,191	68	101,453	9,463
Region 10 Missouri	33,574	69,817,497	13,599,516	8,298	3,373,216	138,259	3,753	3,009,695	264,546	5,506	9,920,690	735,968
Region 11 Arkansas-White-Red	10,446	21,425,664	5,228,308	3,480	1,710,547	41,275	645	958,504	44,429	1,210	1,875,573	167,858
Region 12 Texas-Gulf	10,567	16,472,029	3,030,034	5,639	889,891	79,351	399	300,259	26,926	1,099	4,216,172	160,500
Region 13 Rio Grande	9,195	16,316,788	802,641	7,506	7,800,468	68,884	433	1,585,761	28,795	413	1,533,579	54,966
Region 14 Upper Colorado	10,352	7,226,077	1,321,954	5,994	719,562	99,299	1,755	480,686	116,906	990	769,027	135,896
Region 15 Lower Colorado	5,092	5,775,810	916,132	3,845	3,085,948	37,313	306	461,015	21,660	270	441,810	35,952
Region 16 Great Basin	9,441	7,383,147	1,558,309	5,921	350,534	91,484	939	239,434	66,372	986	439,933	139,875
Region 17 Pacific Northwest	38,443	21,543,550	6,725,486	24,947	1,259,472	306,196	4,728	2,374,047	347,950	2,642	1,294,335	375,502
Region 18 California	44,891	15,572,287	7,701,176	32,319	2,888,277	335,396	3,168	387,281	215,926	2,447	688,211	342,515
Region 19 Alaska	181	7,717	1,071	178	6,277	(D)	1	(D)	(D)	-	-	-
Region 20 Hawaii	1,919	237,937	76,459	1,868	75,432	8,367	14	(D)	(D)	10	(D)	(D)

See footnote(s) at end of table.

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Table 2. **Irrigated Farms by Acres Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	200 to 499 acres			500 to 999 acres			1,000 to 1,999 acres			2,000 acres or more		
	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated
United States 2013	25,956	48,672,931	8,391,260	14,723	34,157,306	10,252,156	8,928	28,555,362	12,133,801	5,001	42,759,182	19,074,100
2008 [1]	27,232	(NA)	8,525,335	15,928	(NA)	11,177,186	9,693	(NA)	13,044,861	4,544	(NA)	16,890,307
2013 DATA												
Alabama	70	134,614	23,252	37	97,421	25,195	16	59,950	22,614	5	29,350	11,294
Alaska	2	(D)	(D)	-	-	-	-	-	-	-	-	-
Arizona	256	264,716	86,669	140	429,344	96,780	109	261,949	150,212	109	486,852	444,850
Arkansas	458	268,848	145,959	644	592,944	445,472	923	1,630,298	1,309,770	893	3,391,031	2,985,353
California	3,510	2,625,630	1,143,606	1,698	2,428,510	1,218,667	938	1,614,951	1,282,735	660	4,592,911	3,029,096
Colorado	1,632	3,259,797	503,963	665	1,842,327	461,703	401	1,903,158	550,733	123	1,822,379	414,991
Connecticut	5	3,950	1,710	1	(D)	(D)	-	-	-	-	-	-
Delaware	97	94,021	27,843	27	41,660	18,820	36	79,696	46,128	4	17,969	11,787
Florida	374	539,398	109,942	179	297,520	116,466	145	531,927	191,845	92	1,128,445	805,966
Georgia	750	904,017	241,348	400	666,334	265,607	211	560,943	289,074	90	602,698	328,408
Hawaii	12	(D)	5,269	3	(D)	2,155	7	19,823	10,044	5	68,335	48,270
Idaho	1,573	1,586,337	480,409	764	1,102,693	558,628	461	1,023,847	608,820	328	2,046,995	1,423,314
Illinois	355	476,493	110,102	167	294,191	114,336	98	265,395	133,263	38	311,117	133,551
Indiana	327	448,137	100,627	181	410,831	122,194	79	236,788	104,766	34	159,245	84,747
Iowa	120	135,078	37,198	78	177,371	50,561	27	66,664	34,970	9	53,773	24,764
Kansas	1,568	3,671,308	529,575	847	2,053,970	592,597	576	2,095,547	768,988	215	2,034,262	775,235
Kentucky	26	66,826	7,685	14	74,144	7,970	7	50,842	9,679	4	47,800	14,078
Louisiana	299	264,168	98,830	408	669,604	282,926	223	531,245	297,830	116	569,255	373,492
Maine	9	14,753	2,890	4	(D)	(D)	2	(D)	(D)	1	(D)	(D)
Maryland	121	118,955	39,547	35	67,720	23,142	14	31,440	(D)	1	(D)	(D)
Massachusetts	19	13,948	6,347	1	(D)	(D)	1	(D)	(D)	-	-	-
Michigan	423	446,171	127,713	147	236,216	102,167	86	225,154	115,751	42	207,272	160,007
Minnesota	377	440,900	113,346	156	252,312	107,618	62	208,876	85,245	31	204,638	127,045
Mississippi	233	284,179	70,626	267	436,478	186,337	283	554,713	387,690	285	1,273,790	1,023,524
Missouri	342	401,696	110,083	254	323,343	183,768	244	468,935	335,415	165	674,727	553,923
Montana	1,175	3,317,435	361,342	703	4,224,169	473,744	281	3,441,347	369,443	127	3,161,196	434,381
Nebraska	4,206	5,513,866	1,457,958	2,711	4,478,776	1,907,413	1,847	4,148,268	2,468,050	643	3,377,684	1,957,694
Nevada	317	1,356,966	100,535	201	443,961	126,447	69	818,450	94,107	79	1,689,644	311,222
New Hampshire	9	4,352	2,110	-	-	-	-	-	-	-	-	-
New Jersey	82	43,382	22,720	27	30,146	18,107	8	24,566	(D)	1	(D)	(D)
New Mexico	369	1,254,557	112,771	189	945,386	128,309	79	605,134	111,126	41	1,520,758	193,282
New York	37	33,815	10,952	6	(D)	3,897	4	15,296	(D)	2	(D)	(D)
North Carolina	150	308,993	45,350	35	80,598	22,302	14	68,792	17,438	4	26,877	9,586
North Dakota	171	432,285	53,314	86	281,609	58,386	24	127,444	28,886	16	149,271	56,953
Ohio	22	42,953	7,196	15	17,076	8,895	6	7,522	6,040	3	7,356	6,370
Oklahoma	317	954,607	96,409	139	564,891	96,391	66	223,192	84,924	22	187,920	101,216
Oregon	704	1,602,277	225,694	484	1,897,314	326,642	188	784,417	252,063	103	2,117,016	430,755
Pennsylvania	10	8,344	2,700	4	20,161	2,538	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	80	138,777	25,809	42	79,317	29,693	16	50,267	19,950	11	56,850	38,905
South Dakota	368	1,311,161	111,549	141	411,259	94,023	37	117,725	48,868	17	148,183	57,641
Tennessee	101	232,549	29,750	54	201,182	34,568	20	69,475	25,095	13	119,077	42,847
Texas	2,390	7,442,980	825,130	1,423	2,974,645	1,022,706	714	2,424,992	1,003,744	361	4,821,263	1,329,929
Utah	728	1,137,490	221,035	377	1,074,274	244,915	123	562,278	165,896	40	552,154	146,379
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	40	72,485	11,976	19	62,043	11,401	3	15,364	(D)	2	(D)	(D)
Washington	680	1,478,159	216,968	414	1,109,530	279,337	232	401,808	315,389	113	817,767	573,631
West Virginia	1	(D)	(D)	-	-	-	-	-	-	-	-	-
Wisconsin	239	304,879	76,345	114	175,957	75,110	57	156,526	82,839	41	224,068	177,652
Wyoming	802	5,199,357	248,238	422	2,497,029	300,213	191	2,023,108	262,145	112	3,971,749	409,174
Water Resources Regions												
Region 01 New England	42	37,003	13,057	6	(D)	4,010	3	47,250	(D)	1	(D)	(D)
Region 02 Mid-Atlantic	366	321,261	109,482	114	223,041	75,112	63	154,606	81,092	8	43,055	20,241
Region 03 South Atlantic-Gulf	1,451	2,084,126	452,750	695	1,289,541	458,475	397	1,248,369	534,596	202	1,844,220	1,196,659
Region 04 Great Lakes	572	617,362	172,588	236	374,488	159,767	122	310,413	165,472	57	286,027	208,395
Region 05 Ohio	256	430,343	81,650	110	338,970	70,453	65	254,540	84,669	22	162,373	65,337
Region 06 Tennessee	47	114,114	(D)	26	(D)	17,288	9	32,910	(D)	2	(D)	(D)
Region 07 Upper Mississippi	1,023	1,236,194	315,349	458	815,725	313,484	215	571,625	292,704	110	671,527	406,231
Region 08 Lower Mississippi	1,125	996,548	361,097	1,395	1,809,327	966,551	1,473	2,827,120	2,042,425	1,327	5,463,890	4,506,968
Region 09 Souris-Red-Rainy	123	308,618	36,615	64	196,474	44,328	18	104,774	25,698	13	143,916	55,119
Region 10 Missouri	7,805	18,564,980	2,599,803	4,531	12,985,081	3,160,629	2,717	10,991,988	3,622,584	964	10,971,847	3,077,727
Region 11 Arkansas-White-Red	2,350	5,646,171	778,151	1,279	3,305,622	903,379	939	3,228,654	1,307,113	543	4,700,593	1,986,103
Region 12 Texas-Gulf	1,555	3,759,092	547,186	1,171	2,378,876	839,796	526	1,832,937	736,558	178	3,094,802	639,717
Region 13 Rio Grande	473	3,240,819	145,304	201	510,360	141,680	101	353,324	145,922	68	1,292,477	217,090
Region 14 Upper Colorado	1,059	1,447,486	301,342	347	1,270,138	233,622	154	1,100,149	202,780	53	1,439,029	232,109
Region 15 Lower Colorado	274	275,012	91,157	170	738,264	113,828	113	269,349	155,012	114	504,412	461,210
Region 16 Great Basin	800	1,746,263	245,768	491	1,130,262	320,583	187	1,375,908	255,255	117	2,100,813	438,972
Region 17 Pacific Northwest	3,043	5,125,948	952,653	1,679	4,075,141	1,173,313	865	2,179,278	1,152,750	539	5,235,329	2,417,122
Region 18 California	3,578	2,706,584	1,166,968	1,747	2,572,481	1,253,703	954	1,652,345	1,303,590	678	4,677,108	3,083,078
Region 19 Alaska	2	(D)	(D)	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	12	(D)	5,269	3	(D)	2,155	7	19,823	10,044	5	68,335	48,270

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 3. **Land Use on Farms with Irrigation: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in farms			Total cropland			Cropland harvested			Other pasture and grazing land that could have been used for crops without additional improvements		
	Farms	Acres	Acres irrigated	Farms	Acres	Acres irrigated	Farms	Acres	Acres irrigated	Farms	Acres	Acres irrigated
United States 2013	229,237	213,993,983	55,319,417	213,621	96,014,108	52,602,871	211,131	78,699,805	51,907,422	12,468	3,466,637	301,201
2008 [1]	235,715	(NA)	55,540,978	228,396	109,246,052	54,495,665	212,778	78,868,125	51,581,383	68,660	21,826,263	2,565,903
2013 DATA												
Alabama	1,022	504,646	101,178	995	374,562	100,591	988	332,370	100,420	66	5,474	-
Alaska	181	7,717	1,071	181	2,905	1,071	177	1,771	1,063	5	50	-
Arizona	4,380	5,045,635	851,861	3,430	1,283,587	823,193	3,350	808,872	803,778	290	359,977	6,001
Arkansas	4,212	6,142,871	4,950,053	4,212	5,712,455	4,937,258	4,141	5,498,515	4,927,143	86	5,976	-
California	44,347	15,204,700	7,549,161	42,279	7,719,406	7,130,894	42,242	7,143,439	7,027,017	346	151,533	12,795
Colorado	12,501	11,929,608	2,309,543	11,712	4,368,341	2,034,102	11,509	2,692,383	1,990,202	1,057	303,979	20,904
Connecticut	715	42,815	5,371	715	21,151	5,371	708	17,340	5,336	36	85	14
Delaware	396	285,716	114,769	396	258,036	114,604	396	249,789	114,604	11	865	-
Florida	8,120	3,092,536	1,364,559	7,939	1,723,170	1,280,892	7,844	1,455,064	1,244,674	241	95,205	15,531
Georgia	3,545	3,157,131	1,196,947	3,503	2,008,322	1,176,589	3,425	1,900,237	1,169,989	242	12,358	2,932
Hawaii	1,919	237,937	76,459	1,884	89,335	71,092	1,880	50,687	(D)	26	599	(D)
Idaho	14,092	7,171,848	3,511,839	10,817	4,429,926	3,243,636	10,328	3,455,710	3,233,123	653	430,774	7,534
Illinois	1,807	1,711,314	541,818	1,807	1,565,395	541,134	1,807	1,489,314	540,994	83	3,142	-
Indiana	1,893	1,589,508	454,712	1,893	1,513,658	454,115	1,887	1,460,644	453,635	134	13,686	420
Iowa	1,090	689,083	175,847	1,090	607,133	175,787	1,090	579,466	175,327	62	4,119	(D)
Kansas	5,243	13,099,354	2,851,317	5,243	9,883,473	(D)	5,243	7,716,574	2,842,037	411	137,744	(D)
Kentucky	1,212	421,519	51,126	1,205	327,979	50,790	1,205	307,925	50,434	104	4,333	-
Louisiana	2,130	2,215,984	1,096,381	2,114	1,951,733	1,092,699	2,079	1,619,569	1,088,530	124	33,526	1,729
Maine	946	170,958	20,817	946	68,758	20,817	946	52,550	(D)	27	1,104	-
Maryland	890	330,962	100,909	890	279,001	100,769	890	270,493	100,757	59	2,602	(D)
Massachusetts	1,398	113,354	27,230	1,398	43,656	27,230	1,398	38,187	27,068	105	597	7
Michigan	3,662	1,567,036	587,850	3,662	1,374,841	(D)	3,662	1,297,611	587,163	310	18,486	-
Minnesota	2,162	1,686,988	516,724	2,162	1,514,167	513,584	2,161	1,442,121	512,373	161	14,250	599
Mississippi	1,843	2,768,094	1,701,587	1,843	2,509,367	1,699,719	1,843	2,420,839	1,692,819	27	8,000	-
Missouri	2,569	2,214,797	1,235,334	2,523	1,984,688	1,233,274	2,486	1,907,144	1,232,694	284	23,265	370
Montana	7,384	18,929,369	1,872,389	6,735	4,277,368	1,522,148	6,483	2,692,873	1,476,839	1,053	442,209	33,943
Nebraska	15,747	21,609,278	8,297,560	15,747	12,953,866	8,270,520	15,747	12,028,526	8,253,125	663	96,223	7,140
Nevada	2,149	4,514,652	689,953	1,775	678,493	516,428	1,719	522,919	487,678	87	69,604	13,534
New Hampshire	528	24,712	4,020	528	10,171	(D)	528	8,116	(D)	-	-	-
New Jersey	1,255	208,657	80,777	1,239	143,105	80,273	1,239	134,641	80,034	90	1,368	12
New Mexico	8,733	8,534,856	694,632	7,898	1,162,122	621,700	7,718	684,277	598,842	533	47,540	16,227
New York	1,936	317,725	48,705	1,932	197,111	48,473	1,932	161,208	48,267	117	2,091	-
North Carolina	2,710	853,125	136,721	2,699	514,513	128,189	2,692	443,579	127,133	85	8,055	900
North Dakota	533	1,404,283	213,728	533	1,071,774	213,668	533	952,050	211,218	90	41,170	455
Ohio	1,453	228,773	41,776	1,442	184,178	41,681	1,442	164,027	41,307	119	2,624	374
Oklahoma	1,672	2,594,056	426,602	1,603	1,313,798	404,790	1,579	801,239	382,738	228	143,141	15,934
Oregon	12,299	9,151,996	1,554,173	10,647	2,439,317	1,306,917	10,264	1,628,684	1,269,594	697	214,803	28,733
Pennsylvania	3,126	350,717	24,027	3,126	179,708	23,797	3,124	159,112	23,507	179	4,398	-
Rhode Island	294	10,557	3,042	284	6,342	(D)	284	3,944	2,953	-	-	-
South Carolina	1,046	486,463	133,927	1,036	336,531	130,959	1,027	319,389	130,743	46	2,709	(D)
South Dakota	1,274	2,634,711	369,864	1,274	1,502,122	369,744	1,274	1,315,917	366,662	70	80,825	1,749
Tennessee	1,108	823,553	146,932	1,105	658,540	146,595	1,103	602,341	(D)	65	3,429	-
Texas	13,259	31,127,299	4,491,987	12,239	10,446,254	4,383,643	12,162	6,814,553	4,259,094	1,091	361,418	24,795
Utah	10,357	4,734,792	1,125,106	8,874	1,178,126	898,022	8,772	913,576	873,194	729	135,513	15,785
Vermont	567	29,362	2,324	567	12,767	2,324	567	7,308	2,149	38	1,306	-
Virginia	1,342	358,107	50,100	1,342	237,244	49,804	1,342	207,229	(D)	95	3,069	(D)
Washington	10,575	4,347,898	1,623,389	8,952	2,209,171	1,555,509	8,784	1,796,604	1,544,599	618	38,367	4,770
West Virginia	297	45,652	1,453	297	22,043	1,453	297	5,464	1,453	15	690	-
Wisconsin	2,427	1,372,536	473,483	2,427	994,542	473,393	2,427	924,344	472,830	184	4,594	159
Wyoming	4,891	17,898,743	1,418,284	4,481	1,669,857	1,138,435	4,407	1,199,271	1,069,883	626	129,762	63,586
Water Resources Regions												
Region 01 New England	4,098	370,371	60,990	4,088	152,907	60,920	4,081	122,028	(D)	194	1,958	21
Region 02 Mid-Atlantic	7,325	1,532,811	391,761	7,305	1,099,430	390,466	7,305	1,015,910	389,537	493	13,592	(D)
Region 03 South Atlantic-Gulf	16,745	8,330,845	2,946,118	16,486	5,040,006	2,828,705	16,297	4,529,933	2,784,444	691	128,285	19,563
Region 04 Great Lakes	6,462	2,326,517	821,148	6,462	2,015,567	820,802	6,462	1,897,840	819,651	452	22,651	420
Region 05 Ohio	4,554	1,865,938	356,743	4,536	1,594,869	355,609	4,526	1,486,528	354,644	301	16,884	374
Region 06 Tennessee	1,139	390,596	57,924	1,124	270,362	(D)	1,117	229,680	(D)	77	1,095	-
Region 07 Upper Mississippi	6,665	4,846,746	1,534,692	6,665	4,143,816	1,532,318	6,665	3,918,155	1,529,988	493	27,357	948
Region 08 Lower Mississippi	7,682	11,604,745	8,013,711	7,666	10,859,388	8,010,704	7,596	10,249,517	7,993,138	245	47,596	1,729
Region 09 Souris-Red-Rainy	466	946,911	175,244	466	839,247	(D)	465	762,221	172,480	61	13,016	-
Region 10 Missouri	33,574	69,817,497	13,599,516	32,805	27,032,038	13,065,578	32,590	22,314,680	12,982,321	2,270	797,417	62,370
Region 11 Arkansas-White-Red	10,446	21,425,664	5,228,308	9,899	12,934,823	5,130,695	9,798	9,183,917	5,032,346	821	325,844	39,418
Region 12 Texas-Gulf	10,567	16,472,029	3,030,034	9,966	7,333,309	2,960,833	9,861	4,982,974	2,884,146	978	268,107	12,692
Region 13 Rio Grande	9,195	16,316,788	802,641	8,254	1,211,042	688,981	7,940	689,131	655,616	741	132,737	15,932
Region 14 Upper Colorado	10,352	7,226,077	1,321,954	9,031	1,388,030	936,702	8,969	935,166	891,336	1,077	284,940	36,025
Region 15 Lower Colorado	5,092	5,775,810	916,132	3,811	1,352,492	872,021	3,723	853,930	847,806	380	364,967	10,801
Region 16 Great Basin	9,441	7,383,147	1,558,309	8,526	1,753,902	1,297,278	8,433	1,379,718	1,260,054	444	107,908	20,831
Region 17 Pacific Northwest	38,443	21,543,550	6,725,486	31,778	9,087,022	6,134,793	30,595	6,866,240	6,040,772	2,354	758,452	65,888
Region 18 California	44,891	15,572,287	7,701,176	42,688	7,813,618	7,213,129	42,651	7,229,779	7,108,302	365	153,182	13,745
Region 19 Alaska	181	7,717	1,071	181	2,905	1,071	177	1,771	1,063	5	50	-
Region 20 Hawaii	1,919	237,937	76,459	1,884	89,335	71,092	1,880	50,687	(D)	26	599	(D)

See footnote(s) at end of table.

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Table 3. **Land Use on Farms with Irrigation: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Cropland not harvested or grazed (see text)			Woodland pastured (see text)		Permanent pasture and rangeland (see text)			All other land (see text)	
	Farms	Acres	Acres irrigated	Farms	Acres	Farms	Acres	Acres irrigated	Farms	Acres
United States 2013	53,567	13,847,666	394,248	17,369	4,798,521	87,800	103,798,714	2,716,546	122,466	9,382,640
2008 [1]	29,934	8,551,664	348,379	(NA)	(NA)	45,319	73,238,008	1,045,313	(NA)	(NA)
2013 DATA										
Alabama	296	36,718	171	151	10,899	293	36,100	587	668	83,085
Alaska	43	1,084	8	16	502	22	722	-	106	3,588
Arizona	724	114,738	13,414	212	479,582	1,931	3,168,702	28,668	2,175	113,764
Arkansas	1,123	207,964	10,115	436	87,982	567	122,085	12,795	1,529	220,349
California	6,026	424,434	91,082	1,232	723,980	5,950	5,579,417	418,267	21,874	1,181,897
Colorado	3,413	1,371,979	22,996	1,297	461,850	6,970	6,853,397	275,441	6,392	246,020
Connecticut	189	3,726	21	116	4,731	139	2,700	-	441	14,233
Delaware	68	7,382	-	20	1,354	51	1,845	165	260	24,481
Florida	1,572	172,901	20,687	524	186,031	1,451	652,063	83,667	3,646	531,272
Georgia	760	95,727	3,668	549	106,208	1,006	148,981	20,358	2,436	893,620
Hawaii	437	38,049	(D)	57	23,453	243	73,932	5,367	889	51,217
Idaho	3,382	543,442	2,979	105	61,036	9,137	2,376,488	268,203	7,278	304,398
Illinois	625	72,939	140	147	9,251	271	44,058	684	1,070	92,610
Indiana	499	39,328	60	196	7,013	423	12,434	597	1,252	56,403
Iowa	299	23,548	(D)	88	9,194	220	22,731	60	662	50,025
Kansas	2,968	2,029,155	5,029	132	29,592	2,871	2,639,546	(D)	2,968	546,743
Kentucky	347	15,721	356	261	8,611	469	36,870	336	833	48,059
Louisiana	704	298,638	2,440	100	12,066	343	86,160	3,682	1,105	166,025
Maine	306	15,104	(D)	145	10,907	213	3,846	-	613	87,447
Maryland	206	5,906	(D)	109	2,506	195	3,490	140	709	45,965
Massachusetts	339	4,872	155	73	1,359	179	2,738	-	1,097	65,601
Michigan	1,120	58,744	(D)	218	8,495	437	14,276	(D)	2,674	169,424
Minnesota	668	57,796	612	174	21,210	466	29,089	3,140	1,414	122,522
Mississippi	439	80,528	6,900	111	9,488	150	51,940	1,868	779	197,299
Missouri	581	54,279	210	420	20,804	891	88,591	2,060	1,512	120,714
Montana	2,023	1,142,286	11,366	879	623,236	5,414	13,741,310	350,241	4,093	287,455
Nebraska	3,920	829,117	10,255	939	71,996	8,106	8,256,333	27,040	7,212	327,083
Nevada	479	85,970	15,216	33	53,395	1,207	3,426,654	173,525	1,254	356,110
New Hampshire	126	2,055	-	57	488	106	719	(D)	369	13,334
New Jersey	338	7,096	227	173	9,739	237	3,953	504	799	51,860
New Mexico	1,449	430,305	6,631	574	49,193	2,871	7,121,804	72,932	3,943	201,737
New York	607	33,812	206	175	3,996	376	10,405	232	1,350	106,213
North Carolina	787	62,879	156	424	31,147	643	34,468	8,532	1,896	272,997
North Dakota	243	78,554	1,995	37	4,179	215	288,314	60	281	40,016
Ohio	393	17,527	-	197	3,141	432	11,500	95	1,074	29,954
Oklahoma	604	369,418	6,118	272	57,370	1,099	1,159,755	21,812	731	63,133
Oregon	2,576	595,830	8,590	1,861	378,996	7,483	5,887,059	247,256	7,111	446,624
Pennsylvania	855	16,198	290	247	2,977	1,204	21,681	230	2,228	146,351
Rhode Island	30	2,398	(D)	15	156	82	551	(D)	190	3,508
South Carolina	236	14,433	(D)	74	19,087	220	19,794	2,968	623	111,051
South Dakota	454	105,380	1,333	154	9,067	684	1,076,984	120	711	46,538
Tennessee	331	52,770	(D)	232	16,084	369	62,993	337	664	85,936
Texas	5,225	3,270,283	99,754	1,957	392,703	6,373	19,873,807	108,344	6,178	414,535
Utah	1,536	129,037	9,043	488	425,930	6,077	2,958,220	227,084	4,444	172,516
Vermont	259	4,153	175	90	1,874	138	2,319	-	378	12,402
Virginia	290	26,946	-	208	10,437	422	27,723	296	899	82,703
Washington	2,184	374,200	6,140	637	135,004	5,023	1,842,103	67,880	6,669	161,620
West Virginia	72	15,889	-	64	3,560	147	9,811	-	189	10,238
Wisconsin	717	65,604	404	255	15,928	523	54,873	90	1,939	307,193
Wyoming	699	340,824	4,966	438	180,734	3,461	15,853,380	279,849	2,859	194,772
Water Resources Regions										
Region 01 New England	1,048	28,921	(D)	440	18,089	763	11,256	70	2,835	188,119
Region 02 Mid-Atlantic	1,891	69,928	(D)	755	26,164	2,097	49,621	1,295	5,070	357,596
Region 03 South Atlantic-Gulf	3,673	381,788	24,698	1,736	352,713	3,647	927,469	117,413	9,378	2,010,657
Region 04 Great Lakes	2,041	95,076	731	520	14,989	1,035	26,293	346	4,718	269,668
Region 05 Ohio	1,229	91,457	591	721	24,954	1,440	77,695	1,134	3,167	168,420
Region 06 Tennessee	442	39,587	-	249	12,579	417	57,475	(D)	724	50,180
Region 07 Upper Mississippi	1,989	198,304	1,382	644	48,766	1,489	152,663	2,374	4,490	501,501
Region 08 Lower Mississippi	2,004	562,275	15,837	380	91,979	686	142,267	3,007	3,103	511,111
Region 09 Souris-Red-Rainy	217	64,010	(D)	64	10,140	123	39,564	(D)	288	57,960
Region 10 Missouri	9,007	3,919,941	20,887	2,376	857,699	19,465	40,647,507	533,938	17,611	1,280,253
Region 11 Arkansas-White-Red	4,852	3,425,062	58,931	1,042	187,271	5,798	7,809,931	97,613	4,935	493,639
Region 12 Texas-Gulf	3,763	2,082,228	63,995	1,549	318,999	4,771	8,538,218	69,201	4,991	281,503
Region 13 Rio Grande	1,647	389,174	17,433	681	58,029	2,761	14,794,329	113,660	4,269	253,388
Region 14 Upper Colorado	2,161	167,924	9,341	1,452	796,242	6,597	4,854,917	385,252	5,114	186,888
Region 15 Lower Colorado	937	133,595	13,414	200	472,382	2,547	3,833,034	44,111	2,477	117,902
Region 16 Great Basin	1,823	266,276	16,393	257	77,120	5,049	5,172,058	261,031	3,773	380,067
Region 17 Pacific Northwest	8,320	1,462,330	28,133	2,975	626,255	22,584	10,809,849	590,693	22,554	1,020,424
Region 18 California	6,043	430,657	91,082	1,255	780,196	6,266	5,779,914	488,047	21,974	1,198,559
Region 19 Alaska	43	1,084	8	16	502	22	722	-	106	3,588
Region 20 Hawaii	437	38,049	(D)	57	23,453	243	73,932	5,367	889	51,217

[1] 2008 data do not include non-horticultural land use on horticulture operations.

Table 4. **Estimated Quantity of Water Applied By Source: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Water applied from all sources									
	Total area [1]				Acres in the open [3]			Area under protection		
	Farms	Acres irrigated	Acre-feet applied [2]	Average acre-feet per acre	Acres irrigated	Acre-feet applied	Average acre-feet per acre	Farms	Square feet irrigated	Gallons applied (1,000)
United States 2013	229,237	55,319,417	88,510,811	1.6	55,283,340	88,455,968	1.6	24,829	1,405,381,805	17,870,533
2008	235,715	55,540,978	91,956,721	1.7	55,509,548	91,877,639	1.7	20,610	1,369,090,815	25,768,753
2013 DATA										
Alabama	1,022	101,178	46,163	0.5	100,605	44,604	0.4	301	25,455,310	508,017
Alaska	181	1,071	499	0.5	968	457	0.5	139	1,731,548	13,784
Arizona	4,380	851,861	3,756,938	4.4	851,407	3,755,876	4.4	205	17,572,080	346,182
Arkansas	4,212	4,950,053	6,454,502	1.3	4,949,965	6,454,191	1.3	176	3,953,942	101,483
California	44,347	7,549,161	23,499,744	3.1	7,543,928	23,488,939	3.1	1,569	243,531,183	3,520,721
Colorado	12,501	2,309,543	4,136,462	1.8	2,309,178	4,135,873	1.8	241	13,702,377	191,795
Connecticut	715	5,371	5,091	0.9	4,557	3,999	0.9	473	30,922,369	355,832
Delaware	396	114,769	58,426	0.5	114,738	58,423	0.5	72	265,160	1,123
Florida	8,120	1,364,559	1,589,559	1.2	1,356,561	1,573,095	1.2	1,789	369,783,392	5,364,931
Georgia	3,545	1,196,947	609,704	0.5	1,196,373	608,568	0.5	446	22,415,692	370,124
Hawaii	1,919	76,459	250,271	3.3	75,770	249,449	3.3	612	23,942,112	267,863
Idaho	14,092	3,511,839	6,424,185	1.8	3,511,751	6,424,081	1.8	179	2,556,909	33,894
Illinois	1,807	541,818	367,709	0.7	541,281	367,207	0.7	467	18,295,306	163,485
Indiana	1,893	454,712	235,086	0.5	454,346	234,935	0.5	471	7,450,681	49,160
Iowa	1,090	175,847	93,008	0.5	175,514	92,573	0.5	364	8,839,112	141,902
Kansas	5,243	2,851,317	3,432,654	1.2	2,851,085	3,432,397	1.2	192	8,074,504	83,755
Kentucky	1,212	51,126	20,631	0.4	50,663	20,335	0.4	552	10,918,317	96,311
Louisiana	2,130	1,096,381	1,455,012	1.3	1,096,228	1,454,716	1.3	319	8,152,878	96,599
Maine	946	20,817	7,273	0.3	20,290	6,959	0.3	651	10,607,864	102,353
Maryland	890	100,909	47,919	0.5	100,530	47,592	0.5	343	13,852,007	106,450
Massachusetts	1,398	27,230	36,480	1.3	26,800	36,195	1.4	613	10,926,750	92,710
Michigan	3,662	587,850	312,651	0.5	586,466	311,599	0.5	1,070	53,296,819	342,773
Minnesota	2,162	516,724	323,812	0.6	516,063	322,879	0.6	485	23,831,980	304,154
Mississippi	1,843	1,701,587	1,769,046	1.0	1,701,494	1,768,937	1.0	149	2,918,426	35,423
Missouri	2,569	1,235,334	1,193,443	1.0	1,235,005	1,193,127	1.0	556	8,469,932	102,943
Montana	7,384	1,872,389	2,502,453	1.3	1,872,286	2,502,345	1.3	284	2,458,858	35,168
Nebraska	15,747	8,297,560	8,069,122	1.0	8,297,457	8,069,039	1.0	187	2,057,548	26,970
Nevada	2,149	689,953	1,913,769	2.8	689,953	1,913,755	2.8	19	359,200	4,407
New Hampshire	528	4,020	1,432	0.4	3,773	1,282	0.3	351	5,660,877	49,037
New Jersey	1,255	80,777	49,030	0.6	80,071	48,086	0.6	527	34,930,178	307,645
New Mexico	8,733	694,632	1,311,403	1.9	694,571	1,311,363	1.9	168	886,778	12,933
New York	1,936	48,705	22,143	0.5	47,580	21,300	0.4	1,066	38,211,640	274,807
North Carolina	2,710	136,721	54,639	0.4	135,707	53,351	0.4	1,073	36,315,699	419,636
North Dakota	533	213,728	148,355	0.7	213,686	148,332	0.7	42	919,488	7,606
Ohio	1,453	41,776	25,819	0.6	40,854	25,160	0.6	710	32,573,918	214,671
Oklahoma	1,672	426,602	522,454	1.2	426,296	522,118	1.2	212	11,723,148	109,646
Oregon	12,299	1,554,173	2,972,530	1.9	1,553,034	2,970,591	1.9	910	44,589,359	631,897
Pennsylvania	3,126	24,027	10,234	0.4	22,523	9,431	0.4	1,820	34,643,884	261,502
Rhode Island	294	3,042	2,231	0.7	2,996	2,198	0.7	197	1,438,186	10,860
South Carolina	1,046	133,927	77,382	0.6	133,816	77,234	0.6	264	3,082,705	48,283
South Dakota	1,274	369,864	291,854	0.8	369,802	291,815	0.8	140	1,300,058	12,710
Tennessee	1,108	146,932	58,371	0.4	145,965	57,136	0.4	483	37,454,409	402,528
Texas	13,259	4,491,987	5,802,895	1.3	4,489,837	5,799,584	1.3	748	89,427,943	1,079,049
Utah	10,357	1,125,106	2,379,301	2.1	1,124,729	2,378,450	2.1	154	18,539,818	277,312
Vermont	567	2,324	1,008	0.4	2,127	911	0.4	353	2,865,406	31,682
Virginia	1,342	50,100	26,766	0.5	49,141	25,395	0.5	768	36,117,321	446,874
Washington	10,575	1,623,389	3,662,824	2.3	1,623,123	3,662,524	2.3	957	7,997,166	97,907
West Virginia	297	1,453	787	0.5	1,319	686	0.5	184	2,003,960	32,859
Wisconsin	2,427	473,483	387,991	0.8	472,856	387,148	0.8	741	18,036,668	274,667
Wyoming	4,891	1,418,284	2,089,747	1.5	1,418,272	2,089,728	1.5	37	320,940	6,111
Water Resources Regions										
Region 01 New England	4,098	60,990	52,786	0.9	58,842	50,899	0.9	2,408	60,433,198	614,723
Region 02 Mid-Atlantic	7,325	391,761	199,316	0.5	388,390	196,197	0.5	3,577	115,035,065	1,016,451
Region 03 South Atlantic-Gulf	16,745	2,946,118	2,390,968	0.8	2,935,603	2,369,716	0.8	3,874	470,764,723	6,925,027
Region 04 Great Lakes	6,462	821,148	451,162	0.5	817,946	448,422	0.5	2,413	118,145,599	892,795
Region 05 Ohio	4,554	356,743	185,063	0.5	354,602	183,456	0.5	2,135	59,729,601	523,725
Region 06 Tennessee	1,139	57,924	26,417	0.5	57,459	26,091	0.5	532	8,897,441	106,126
Region 07 Upper Mississippi	6,665	1,534,692	1,062,887	0.7	1,533,177	1,061,086	0.7	1,718	45,904,253	586,885
Region 08 Lower Mississippi	7,682	8,013,711	9,629,376	1.2	8,013,416	9,628,711	1.2	482	13,975,098	216,780
Region 09 Souris-Red-Rainy	466	175,244	118,781	0.7	175,021	118,621	0.7	75	8,391,544	52,017
Region 10 Missouri	33,574	13,599,516	14,891,781	1.1	13,598,476	14,890,524	1.1	1,199	33,023,426	409,756
Region 11 Arkansas-White-Red	10,446	5,228,308	6,953,706	1.3	5,227,723	6,952,945	1.3	619	20,243,993	247,906
Region 12 Texas-Gulf	10,567	3,030,034	3,719,141	1.2	3,027,926	3,715,944	1.2	707	87,455,543	1,041,778
Region 13 Rio Grande	9,195	802,641	1,587,844	2.0	802,574	1,587,805	2.0	163	827,838	12,558
Region 14 Upper Colorado	10,352	1,321,954	2,638,973	2.0	1,321,937	2,638,943	2.0	98	981,198	9,669
Region 15 Lower Colorado	5,092	916,132	3,955,119	4.3	915,691	3,954,057	4.3	192	17,562,380	346,078
Region 16 Great Basin	9,441	1,558,309	3,629,811	2.3	1,557,939	3,628,952	2.3	152	18,528,442	279,776
Region 17 Pacific Northwest	38,443	6,725,486	13,004,705	1.9	6,723,954	13,002,330	1.9	2,149	55,237,936	773,767
Region 18 California	44,891	7,701,176	23,762,206	3.1	7,695,926	23,751,363	3.1	1,585	244,570,867	3,533,066
Region 19 Alaska	181	1,071	499	0.5	968	457	0.5	139	1,731,548	13,784
Region 20 Hawaii	1,919	76,459	250,271	3.3	75,770	249,449	3.3	612	23,942,112	267,863

See footnote(s) at end of table.

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Table 4. **Estimated Quantity of Water Applied By Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Ground water from wells											
	Applied in the open						Applied under protection					
	Total			Only source			Total			Only source		
	Farms	Acres irrigated	Acre-feet applied	Farms	Acres irrigated	Average acre-feet per acre	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)
United States 2013	115,674	37,199,644	48,482,419	92,587	27,182,385	1.2	14,661	841,607,093	10,474,182	13,544	676,370,353	8,034,222
2008	110,397	36,554,687	48,810,030	86,628	26,855,810	1.2	14,796	908,627,874	15,979,605	12,631	659,549,521	10,074,700
2013 DATA												
Alabama	532	48,481	23,089	463	35,646	0.5	175	12,283,392	312,294	145	9,024,072	193,026
Alaska	71	856	389	61	846	0.4	88	290,088	2,565	82	286,964	2,536
Arizona	1,936	314,677	1,038,973	1,388	186,297	3.7	93	9,185,968	110,315	90	8,057,200	66,714
Arkansas	3,709	4,493,900	5,495,085	2,674	3,083,790	1.2	83	423,348	4,501	77	419,748	4,375
California	23,363	3,852,318	9,753,381	16,164	1,448,904	2.6	785	141,722,788	2,000,359	658	98,165,067	1,261,226
Colorado	2,624	1,003,590	1,564,222	1,860	789,948	1.6	126	7,714,802	99,998	102	2,643,780	27,678
Connecticut	318	1,769	1,829	279	933	0.7	303	11,330,240	(D)	288	11,315,720	(D)
Delaware	334	108,720	56,252	304	91,115	0.5	42	148,120	664	42	148,120	664
Florida	6,342	737,127	698,591	5,893	581,527	1.0	1,515	268,297,234	3,853,508	1,370	207,568,908	2,963,400
Georgia	2,922	963,074	474,557	2,161	653,250	0.5	312	23,757,719	356,689	296	23,596,544	350,376
Hawaii	117	28,621	(D)	88	2,135	1.1	30	577,360	5,223	30	577,360	5,223
Idaho	3,048	1,431,878	2,521,148	1,709	586,923	1.7	109	524,149	4,791	109	524,149	4,791
Illinois	1,360	526,246	354,616	1,293	513,327	0.7	290	12,267,969	111,168	275	9,888,884	88,736
Indiana	1,278	409,889	207,926	1,159	359,211	0.5	267	3,318,728	(D)	261	3,302,096	(D)
Iowa	669	167,223	88,965	635	159,618	0.5	172	6,207,086	102,000	167	6,144,586	101,313
Kansas	4,697	2,805,697	3,388,163	4,280	2,605,069	1.2	79	4,416,992	32,420	61	3,371,392	11,878
Kentucky	205	26,530	9,043	192	25,361	0.3	92	559,978	4,016	82	506,178	(D)
Louisiana	1,573	883,114	1,088,201	1,264	699,109	1.2	208	5,650,282	71,475	174	4,563,204	57,030
Maine	321	11,067	3,341	297	1,543	0.5	386	9,983,622	(D)	378	9,917,622	(D)
Maryland	476	78,554	37,038	390	55,717	0.5	237	8,003,013	59,130	216	7,726,759	56,809
Massachusetts	522	7,795	4,693	393	2,311	1.4	329	5,388,856	44,940	264	2,964,106	21,600
Michigan	2,487	466,358	236,826	1,995	294,957	0.5	771	27,909,752	117,999	723	23,794,736	95,225
Minnesota	1,718	466,723	283,007	1,636	429,793	0.6	378	15,484,640	121,620	357	13,276,700	106,897
Mississippi	1,425	1,609,442	1,676,219	1,156	1,199,111	1.0	86	3,251,458	31,863	86	3,251,458	31,863
Missouri	1,707	1,172,182	1,154,374	1,634	1,136,984	1.0	267	6,502,828	50,796	240	6,420,086	50,052
Montana	1,012	54,858	62,797	698	26,479	1.2	207	1,981,678	26,662	207	1,981,678	26,662
Nebraska	14,863	7,666,888	7,389,258	11,881	5,583,339	0.9	111	1,416,368	19,802	111	1,416,368	19,802
Nevada	830	359,178	1,053,389	569	188,187	3.3	19	359,200	4,407	19	359,200	4,407
New Hampshire	237	1,107	373	200	766	0.4	220	4,942,488	(D)	196	4,742,488	(D)
New Jersey	903	59,312	31,590	750	41,580	0.6	370	29,348,143	248,404	351	26,808,422	226,982
New Mexico	3,977	405,285	805,301	2,670	323,174	1.9	120	763,888	(D)	110	661,090	5,028
New York	766	25,159	10,061	710	24,367	0.4	598	12,339,281	90,835	563	12,254,324	89,958
North Carolina	996	38,034	13,369	875	25,890	0.4	697	14,407,351	116,203	641	12,865,066	104,464
North Dakota	308	155,003	106,471	285	129,662	0.7	24	117,456	1,856	18	113,424	1,851
Ohio	555	23,960	12,745	475	20,598	0.5	320	12,420,452	54,031	281	11,901,368	50,502
Oklahoma	1,262	374,587	480,381	1,228	366,969	1.3	93	1,660,040	(D)	90	1,633,040	(D)
Oregon	4,647	508,867	805,875	3,630	325,748	1.6	565	28,313,706	375,389	537	21,389,605	253,247
Pennsylvania	1,661	10,847	(D)	1,466	8,685	0.4	1,201	28,383,831	210,183	1,157	27,932,081	207,327
Rhode Island	128	441	178	128	441	0.4	120	903,682	3,730	109	870,682	3,656
South Carolina	697	101,600	57,034	557	72,321	0.6	163	2,759,773	29,457	154	2,751,205	29,446
South Dakota	724	240,864	143,536	651	223,440	0.6	79	560,434	4,992	70	492,934	4,353
Tennessee	466	125,819	49,241	420	124,495	0.4	201	27,405,032	266,114	165	24,035,422	221,904
Texas	9,359	4,062,079	5,044,573	8,735	3,856,811	1.2	362	40,068,854	(D)	336	21,971,174	343,196
Utah	1,419	279,769	626,614	975	142,923	2.4	34	6,854,892	192,987	34	6,854,892	192,987
Vermont	173	368	209	144	304	0.6	222	1,502,352	20,882	183	1,462,202	(D)
Virginia	693	7,182	4,480	665	5,780	0.5	500	16,662,476	169,445	458	13,302,346	116,520
Washington	4,061	516,522	1,084,300	3,663	285,571	2.1	549	4,012,310	54,224	528	3,930,710	53,029
West Virginia	83	794	250	83	794	0.3	72	1,175,260	(D)	72	1,175,260	(D)
Wisconsin	1,617	428,267	299,805	1,400	360,810	0.7	574	17,901,353	233,803	564	17,863,553	233,680
Wyoming	483	137,023	155,254	361	99,826	1.2	17	146,380	3,228	17	146,380	3,228
Water Resources Regions												
Region 01 New England	1,605	22,279	10,568	1,369	6,087	0.9	1,428	32,789,928	(D)	1,282	30,025,498	300,750
Region 02 Mid-Atlantic	4,344	281,788	139,881	3,860	219,778	0.5	2,470	88,052,557	731,352	2,375	81,480,644	652,126
Region 03 South Atlantic-Gulf	11,684	1,883,276	1,268,187	10,151	1,362,832	0.7	2,855	325,476,615	4,705,245	2,607	259,832,141	3,679,462
Region 04 Great Lakes	3,808	662,679	350,123	3,126	456,407	0.5	1,572	52,390,555	359,709	1,453	47,996,002	334,842
Region 05 Ohio	1,660	305,436	157,249	1,475	293,284	0.5	797	33,030,388	272,786	700	30,144,840	240,709
Region 06 Tennessee	327	17,510	(D)	274	12,955	0.5	250	4,798,044	57,475	226	3,706,074	39,684
Region 07 Upper Mississippi	4,814	1,401,838	914,645	4,484	1,274,829	0.7	1,168	34,216,538	307,077	1,122	29,614,653	269,966
Region 08 Lower Mississippi	6,821	7,389,597	8,395,712	5,330	5,534,778	1.1	304	9,039,862	(D)	270	7,952,784	83,359
Region 09 Souris-Red-Rainy	315	142,628	92,625	303	133,974	0.6	45	363,012	3,652	39	358,980	3,647
Region 10 Missouri	20,666	9,791,794	9,615,883	16,617	7,411,950	1.0	643	24,024,194	272,081	586	18,797,130	197,053
Region 11 Arkansas-White-Red	7,412	4,809,089	6,318,042	6,961	4,442,125	1.3	307	4,507,166	49,994	290	3,468,566	30,228
Region 12 Texas-Gulf	7,320	2,632,286	3,058,306	6,712	2,469,489	1.1	361	39,534,854	515,567	335	21,437,174	334,509
Region 13 Rio Grande	4,570	530,262	1,112,374	3,265	373,539	2.1	128	610,888	(D)	118	508,090	4,683
Region 14 Upper Colorado	615	51,677	103,615	517	36,817	2.0	14	169,400	391	7	140,000	349
Region 15 Lower Colorado	2,197	332,077	1,085,764	1,507	197,411	3.6	80	9,176,268	110,212	77	8,047,500	66,611
Region 16 Great Basin	1,875	607,113	1,582,221	1,223	326,245	2.9	54	7,122,316	197,501	54	7,122,316	197,501
Region 17 Pacific Northwest	11,916	2,388,556	4,296,414	8,979	1,140,666	1.8	1,283	33,708,187	452,934	1,234	26,702,486	329,597
Region 18 California	23,537	3,920,282	9,891,489	16,285	1,486,238	2.6	784	141,728,872	2,000,520	657	98,171,151	1,261,387
Region 19 Alaska	71	856	389	61	846	0.4	88	290,088	2,565	82	286,964	2,536
Region 20 Hawaii	117	28,621	(D)	88	2,135	1.1	30	577,360	5,223	30	577,360	5,223

See footnote(s) at end of table.

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Table 4. **Estimated Quantity of Water Applied By Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		On-farm surface water										
		Applied in the open						Applied under protection				
		Total			Only source			Total			Only source	
		Farms	Acres irrigated	Acre-feet applied	Farms	Acres irrigated	Average acre-feet per acre	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)
United States	2013	34,322	6,369,961	9,193,479	19,917	2,961,176	1.6	3,114	318,948,518	3,493,459	2,082	168,533,862	1,831,371
	2008	59,655	8,990,106	13,929,496	40,867	4,655,363	1.6	3,520	349,881,054	6,600,479	1,593	133,848,369	2,520,776
2013 DATA													
Alabama		317	42,926	18,233	251	33,380	0.4	58	2,856,166	47,779	42	1,093,966	8,715
Alaska		20	82	34	7	65	0.3	29	74,465	556	14	37,800	425
Arizona		320	100,628	327,470	181	54,343	4.0	4	765,016	22,680	1	(D)	(D)
Arkansas		1,314	701,343	895,347	296	91,996	1.5	16	2,018,600	85,125	16	2,018,600	85,125
California		4,090	1,027,008	1,823,721	914	256,341	2.7	137	19,788,818	237,583	64	5,018,616	31,369
Colorado		1,607	318,017	576,233	1,303	229,209	2.0	32	5,008,700	78,778	21	434,000	13,076
Connecticut		126	2,461	1,783	93	1,820	0.5	72	16,402,491	191,506	57	16,366,971	191,453
Delaware		43	6,034	1,321	19	854	0.3	-	-	-	-	-	-
Florida		1,014	289,801	351,479	663	129,133	1.0	264	87,741,255	1,205,956	122	(D)	(D)
Georgia		1,141	244,943	127,274	353	87,809	0.6	23	211,625	(D)	7	17,850	134
Hawaii		117	10,773	(D)	69	6,670	2.2	87	2,912,060	61,305	63	1,960,500	39,073
Idaho		1,861	451,182	850,596	765	155,136	1.7	18	2,203,344	26,576	9	792,000	15,552
Illinois		206	11,531	5,667	148	5,269	0.4	58	5,497,383	(D)	37	769,124	6,068
Indiana		337	43,637	23,301	215	19,444	0.6	28	5,540,588	(D)	17	5,370,960	(D)
Iowa		150	6,426	2,066	114	2,957	0.3	56	381,100	4,200	46	311,880	3,421
Kansas		469	31,252	19,015	179	12,599	0.6	21	1,061,720	20,255	4	28,800	897
Kentucky		381	22,883	10,574	351	20,736	0.5	83	13,410,057	41,693	63	547,440	3,206
Louisiana		507	183,205	308,251	247	98,305	1.9	34	1,186,028	16,538	9	5,400	122
Maine		200	9,752	3,438	175	4,951	0.5	51	282,840	1,373	34	90,840	(D)
Maryland		282	20,170	9,337	199	8,801	0.4	61	2,895,513	22,833	40	2,737,012	21,203
Massachusetts		573	21,874	30,350	427	13,912	2.0	124	2,351,026	(D)	72	884,526	9,432
Michigan		969	126,549	68,925	487	43,365	0.5	119	5,357,410	19,068	69	373,988	1,763
Minnesota		179	32,601	23,467	112	20,886	0.8	27	1,027,276	5,992	17	210,000	1,098
Mississippi		478	92,072	87,151	220	28,704	0.7	13	105,000	976	13	105,000	976
Missouri		570	58,125	33,680	507	42,021	0.6	74	414,706	3,836	64	397,300	3,627
Montana		1,141	436,152	611,784	883	321,126	1.4	13	140,120	1,705	13	140,120	1,705
Nebraska		1,663	194,992	154,652	22	18,644	1.1	-	-	-	-	-	-
Nevada		484	187,394	409,824	354	85,164	2.1	-	-	-	-	-	-
New Hampshire		123	1,166	473	91	814	0.4	60	253,836	(D)	44	146,636	1,378
New Jersey		302	27,146	15,155	132	12,518	0.6	47	5,044,981	(D)	28	612,000	7,887
New Mexico		1,657	134,874	142,897	1,408	120,399	1.0	28	122,050	3,548	19	117,600	3,504
New York		457	18,461	10,091	374	15,645	0.5	161	14,893,673	63,876	133	14,749,878	61,157
North Carolina		1,183	86,137	35,832	1,066	74,616	0.4	124	20,004,442	275,116	82	16,805,050	240,982
North Dakota		77	13,144	6,654	61	10,861	0.5	12	724,032	4,504	6	720,000	4,500
Ohio		382	14,345	10,604	286	11,679	0.7	159	21,237,883	129,251	113	20,521,038	124,665
Oklahoma		212	34,488	26,142	152	29,865	0.7	2	(D)	(D)	-	-	-
Oregon		1,956	347,321	634,328	1,385	208,160	1.9	126	11,271,094	136,062	89	2,349,124	17,601
Pennsylvania		601	10,508	(D)	415	7,785	0.4	150	2,764,078	16,358	128	2,687,970	15,791
Rhode Island		66	2,340	1,765	52	2,315	0.8	31	117,684	1,456	17	84,204	1,377
South Carolina		217	33,316	18,543	129	11,553	0.4	55	221,932	3,373	46	205,300	3,352
South Dakota		136	33,735	22,946	82	22,888	0.7	18	83,700	1,044	9	16,200	405
Tennessee		258	17,046	6,165	228	15,917	0.4	73	5,324,950	65,835	49	4,907,320	61,560
Texas		1,517	117,187	206,105	1,096	73,121	2.1	105	42,902,765	(D)	64	15,303,280	183,341
Utah		1,314	168,100	266,881	868	98,700	1.8	-	-	-	-	-	-
Vermont		161	1,555	471	143	1,392	0.3	53	375,142	(D)	22	328,512	(D)
Virginia		304	38,527	18,881	269	35,281	0.5	129	10,177,855	99,676	72	3,959,045	52,327
Washington		1,317	234,253	493,357	945	121,414	2.4	223	809,290	4,702	201	455,040	3,040
West Virginia		71	328	258	71	328	0.8	23	377,960	(D)	23	377,960	(D)
Wisconsin		569	41,929	68,043	359	25,522	2.1	25	82,700	531	15	44,900	408
Wyoming		883	320,242	411,920	751	266,763	1.4	8	(D)	198	8	(D)	198
Water Resources Regions													
Region 01 New England		1,125	37,886	37,897	868	24,098	1.4	353	19,440,517	221,193	224	17,573,177	204,368
Region 02 Mid-Atlantic		1,599	106,626	49,898	1,109	68,919	0.5	385	20,406,164	(D)	300	10,331,189	102,862
Region 03 South Atlantic-Gulf		3,949	720,817	564,894	2,532	355,673	0.7	549	112,308,640	1,554,745	311	(D)	(D)
Region 04 Great Lakes		1,640	158,634	89,021	971	62,669	0.5	321	40,765,746	207,385	219	35,437,534	186,681
Region 05 Ohio		1,123	43,878	22,981	919	35,807	0.5	293	23,692,706	119,206	193	9,747,700	72,089
Region 06 Tennessee		352	28,327	(D)	314	22,757	0.5	54	1,131,390	6,506	35	497,040	4,026
Region 07 Upper Mississippi		1,034	111,513	111,061	721	67,710	1.2	160	6,822,583	(D)	114	1,172,404	10,841
Region 08 Lower Mississippi		1,823	851,196	1,146,719	414	146,378	1.8	54	3,491,628	(D)	29	2,311,000	89,355
Region 09 Souris-Red-Rainy		54	18,026	13,230	45	15,758	0.8	18	814,032	4,953	12	810,000	4,949
Region 10 Missouri		4,262	989,780	1,248,178	2,018	608,725	1.4	99	5,093,986	70,949	67	424,160	4,516
Region 11 Arkansas-White-Red		1,262	236,769	310,904	852	159,085	1.4	57	4,767,203	77,152	47	1,262,840	37,530
Region 12 Texas-Gulf		1,488	112,884	146,716	1,085	70,087	1.4	89	42,086,765	(D)	48	14,487,280	158,819
Region 13 Rio Grande		1,292	102,873	116,166	1,033	74,398	1.0	28	122,050	3,548	19	117,600	3,504
Region 14 Upper Colorado		1,620	281,461	463,827	1,359	242,785	1.7	18	27,900	578	11	13,200	255
Region 15 Lower Colorado		460	125,904	419,258	321	78,755	3.9	4	765,016	22,680	1	(D)	(D)
Region 16 Great Basin		1,308	304,126	593,001	848	159,311	2.0	-	-	-	-	-	-
Region 17 Pacific Northwest		5,658	1,087,288	2,045,507	3,510	502,705	2.0	379	14,436,848	169,199	311	3,749,284	38,052
Region 18 California		4,136	1,041,118	1,783,532	922	258,821	2.5	137	19,788,818	237,583	64	5,018,616	31,369
Region 19 Alaska		20	82	34	7	65	0.3	29	74,465	556	14	37,800	425
Region 20 Hawaii		117	10,773	(D)	69	6,670	2.2	87	2,912,060	61,305	63	1,960,500	39,073

See footnote(s) at end of table.

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Table 4. **Estimated Quantity of Water Applied By Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Off-farm water from all suppliers											
	Applied in the open						Applied under protection					
	Total			Only source			Total			Only source		
	Farms	Acres irrigated	Acre-feet applied	Farms	Acres irrigated	Average acre-feet per acre	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)
United States 2013	96,646	14,448,939	30,780,070	78,901	9,434,701	2.2	8,490	368,339,216	3,902,891	7,824	283,422,445	3,114,107
2008	84,443	13,165,405	29,138,113	71,525	8,547,539	2.2	4,785	237,706,687	3,188,668	3,999	171,449,220	2,154,001
2013 DATA												
Alabama	198	10,746	3,282	153	8,926	0.3	100	12,551,272	147,945	82	12,470,152	146,515
Alaska	29	51	34	18	28	0.8	37	1,366,995	10,662	28	1,354,332	10,633
Arizona	2,593	540,280	2,389,433	2,155	401,595	4.7	113	8,341,096	213,187	111	3,831,080	32,786
Arkansas	245	59,218	63,759	157	2,873	0.5	83	1,570,794	11,857	77	1,538,394	10,723
California	25,918	4,013,401	11,911,837	18,007	1,929,004	3.5	799	104,784,472	1,282,778	703	74,641,754	993,175
Colorado	9,107	1,109,670	1,995,418	8,344	818,162	1.9	107	1,008,275	13,019	94	997,133	12,884
Connecticut	65	396	387	57	282	0.9	113	3,653,560	(D)	113	3,653,560	(D)
Delaware	20	1,100	850	14	420	0.5	30	130,000	459	30	130,000	459
Florida	383	399,032	523,025	252	226,991	1.1	186	21,488,755	305,467	132	6,944,334	218,467
Georgia	131	16,835	6,737	73	10,789	0.3	127	479,624	(D)	127	479,624	(D)
Hawaii	1,411	60,138	151,396	1,345	18,200	2.3	519	22,100,142	201,335	495	22,018,002	199,928
Idaho	11,209	1,712,196	3,052,337	9,534	1,065,396	1.8	61	225,416	2,527	52	68,600	1,303
Illinois	102	6,919	6,924	71	6,731	1.0	140	1,588,680	(D)	134	1,583,280	(D)
Indiana	140	6,844	3,708	117	2,922	0.5	187	2,035,845	9,707	182	1,873,345	9,200
Iowa	115	3,024	1,542	103	1,660	0.7	146	4,322,316	35,702	141	4,309,836	35,514
Kansas	403	35,432	25,219	271	17,069	0.5	125	2,775,792	31,080	102	1,849,712	12,155
Kentucky	341	1,252	718	320	1,113	0.6	402	8,681,690	50,602	382	6,032,987	42,657
Louisiana	296	41,734	58,264	222	15,395	1.1	113	1,402,008	8,586	102	1,385,840	8,411
Maine	66	1,261	180	63	121	0.7	231	2,293,998	(D)	222	1,933,998	(D)
Maryland	82	3,258	1,217	76	2,643	0.3	71	3,178,326	24,487	61	2,964,326	22,568
Massachusetts	181	2,214	1,152	107	1,489	0.5	262	4,312,968	(D)	182	2,342,318	(D)
Michigan	206	12,163	5,848	187	9,353	0.5	243	36,708,953	205,706	219	22,462,305	144,054
Minnesota	95	19,811	16,405	75	15,146	0.9	101	13,326,064	176,543	90	13,091,600	173,303
Mississippi	166	7,802	5,567	145	1,589	0.4	50	257,500	2,584	50	257,500	2,584
Missouri	136	11,268	5,073	114	9,928	0.5	247	5,239,118	48,311	220	5,194,686	47,847
Montana	5,598	1,410,375	1,827,764	5,283	1,311,260	1.3	64	381,660	6,801	64	381,660	6,801
Nebraska	2,248	511,745	525,129	777	144,508	0.9	76	712,960	7,168	76	712,960	7,168
Nevada	1,129	226,633	450,542	941	117,886	2.3	-	-	-	-	-	-
New Hampshire	33	1,151	436	14	14	1.6	95	788,553	(D)	87	724,553	(D)
New Jersey	112	1,596	1,341	82	1,320	0.8	129	3,318,334	(D)	129	3,318,334	(D)
New Mexico	4,539	204,309	363,165	3,276	148,024	1.9	30	113,440	(D)	29	28,440	269
New York	279	4,626	1,148	220	3,423	0.3	347	12,001,438	120,097	330	11,954,638	119,589
North Carolina	138	11,913	4,150	114	11,157	0.4	314	5,388,746	28,317	288	3,679,533	22,400
North Dakota	149	45,569	35,207	140	42,120	0.8	12	144,000	1,246	12	144,000	1,246
Ohio	233	3,653	1,811	198	2,860	0.5	277	6,912,152	31,389	270	6,637,681	30,827
Oklahoma	168	22,591	15,595	117	14,887	0.7	122	8,539,645	81,534	117	4,768,100	50,340
Oregon	6,591	772,844	1,530,388	5,886	522,271	2.1	269	9,737,703	120,447	240	4,297,817	66,177
Pennsylvania	136	1,745	1,082	95	1,536	0.6	516	5,881,121	34,961	488	4,880,455	33,191
Rhode Island	68	196	255	54	182	1.3	60	416,820	5,674	57	414,900	5,656
South Carolina	196	2,115	1,657	139	1,472	0.7	55	459,600	15,452	55	459,600	15,452
South Dakota	444	101,231	125,333	392	87,455	1.3	52	1,260,724	6,674	52	1,260,724	6,674
Tennessee	153	3,436	1,730	127	3,310	0.5	252	5,926,287	70,578	228	4,305,687	49,727
Texas	2,689	353,942	548,906	2,355	259,562	1.7	322	9,497,384	(D)	307	9,453,684	(D)
Utah	8,429	759,434	1,484,955	7,730	597,369	2.0	120	11,689,966	84,325	120	11,689,966	84,325
Vermont	75	240	231	64	148	0.9	117	1,163,720	(D)	109	1,139,720	(D)
Virginia	69	3,714	2,034	60	3,640	0.5	203	12,085,794	177,753	181	11,668,634	176,180
Washington	5,633	932,907	2,084,867	5,190	710,363	2.2	212	3,784,646	38,981	201	3,781,796	38,978
West Virginia	31	189	178	31	189	0.9	89	593,040	(D)	89	593,040	(D)
Wisconsin	118	9,604	19,300	85	6,307	2.1	152	3,464,065	40,333	152	3,464,065	40,333
Wyoming	3,750	987,136	1,522,554	3,551	875,613	1.6	12	253,760	2,684	12	253,760	2,684
Water Resources Regions												
Region 01 New England	437	5,258	2,434	319	2,128	0.6	822	12,079,171	(D)	714	9,658,601	55,840
Region 02 Mid-Atlantic	447	11,183	6,418	339	9,274	0.5	825	13,865,549	(D)	799	13,427,403	(D)
Region 03 South Atlantic-Gulf	1,138	434,603	536,635	823	252,442	1.0	770	49,977,228	665,038	667	33,303,834	570,475
Region 04 Great Lakes	565	19,685	9,278	484	14,298	0.5	659	51,372,553	325,701	606	36,209,921	260,997
Region 05 Ohio	743	7,313	3,226	664	5,848	0.5	1,178	20,033,155	131,733	1,118	16,313,081	117,674
Region 06 Tennessee	156	11,724	4,557	125	11,503	0.4	259	3,810,067	42,145	240	2,728,547	24,774
Region 07 Upper Mississippi	347	33,403	35,380	268	25,046	1.1	447	16,824,598	(D)	425	16,679,318	(D)
Region 08 Lower Mississippi	445	77,359	86,280	306	13,084	0.8	160	1,921,748	(D)	149	1,905,580	(D)
Region 09 Souris-Red-Rainy	73	15,991	12,766	65	13,395	0.8	18	7,214,500	43,413	18	7,214,500	43,413
Region 10 Missouri	12,596	3,005,388	4,026,463	10,181	2,317,599	1.4	526	7,371,346	66,726	477	7,256,092	63,640
Region 11 Arkansas-White-Red	2,022	248,287	323,999	1,841	145,070	1.3	282	12,075,324	120,759	263	7,407,379	72,015
Region 12 Texas-Gulf	2,068	323,512	510,922	1,732	228,456	1.7	298	8,974,984	(D)	283	8,931,284	(D)
Region 13 Rio Grande	4,736	254,926	359,265	3,523	132,243	1.6	17	107,500	(D)	16	22,500	239
Region 14 Upper Colorado	8,434	1,011,187	2,071,501	8,152	926,194	2.1	73	813,298	8,700	73	813,298	8,700
Region 15 Lower Colorado	3,083	563,062	2,449,035	2,479	419,415	4.6	113	8,341,096	213,187	111	3,831,080	32,786
Region 16 Great Basin	7,207	794,420	1,453,730	6,453	535,154	1.9	98	11,411,166	82,275	98	11,411,166	82,275
Region 17 Pacific Northwest	24,393	3,479,063	6,660,409	21,420	2,391,029	1.9	573	12,860,725	151,635	524	7,261,173	96,137
Region 18 California	26,316	4,092,386	12,076,342	18,364	1,974,295	3.5	816	105,818,072	1,294,962	720	75,675,354	1,005,359
Region 19 Alaska	29	51	34	18	28	0.8	37	1,366,995	10,662	28	1,354,332	10,633
Region 20 Hawaii	1,411	60,138	151,396	1,345	18,200	2.3	519	22,100,142	201,335	495	22,018,002	199,928

[1] Irrigated square feet under protection were converted to acres and added to acres irrigated for the Total Area columns.
[2] Total gallons were converted to acre-feet. May not add due to rounding.
[3] Acres in the open was calculated as total acres minus square feet under protection converted to acres.

Table 5. **Off-Farm Water Suppliers: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms using any off-farm water											
	Acres in the open [1]						Area under protection					
	Farms	Acres irrigated with off-farm water	Acre-feet applied [2]	Supplier of off-farm water [3]			Farms	Square feet irrigated	Gallons applied (1,000)	Supplier of off-farm water [3]		
				Bureau of Reclamation	Other Federal agencies	All other suppliers				Bureau of Reclamation	Other Federal agencies	All other suppliers
United States 2013	96,646	14,448,939	30,780,070	24,376	6,129	47,191	8,490	368,339,216	3,902,891	255	250	6,090
2008 [3]	80,500	13,069,453	28,969,626	27,847	4,419	28,585	4,785	237,706,687	3,188,668	(X)	(X)	(X)
2013 DATA												
Alabama	198	10,746	3,282	-	3	146	100	12,551,272	147,945	-	-	91
Alaska	29	51	34	-	-	22	37	1,366,995	10,662	-	-	28
Arizona	2,593	540,280	2,389,433	638	87	1,351	113	8,341,096	213,187	2	-	91
Arkansas	245	59,218	63,759	11	12	208	83	1,570,794	11,857	-	6	52
California	25,918	4,013,401	11,911,837	5,242	1,515	15,635	799	104,784,472	1,282,778	67	31	460
Colorado	9,107	1,109,670	1,995,418	2,791	1,481	4,117	107	1,008,275	13,019	31	18	55
Connecticut	65	396	387	7	18	33	113	3,653,560	(D)	8	26	58
Delaware	20	1,100	850	-	-	16	30	130,000	459	-	-	30
Florida	383	399,032	523,025	1	16	164	186	21,488,755	305,467	-	3	137
Georgia	131	16,835	6,737	5	19	79	127	479,624	(D)	-	7	63
Hawaii	1,411	60,138	151,396	9	21	887	519	22,100,142	201,335	-	-	354
Idaho	11,209	1,712,196	3,052,337	3,805	255	3,826	61	225,416	2,527	-	-	35
Illinois	102	6,919	6,924	12	-	66	140	1,588,680	(D)	-	-	121
Indiana	140	6,844	3,708	-	-	124	187	2,035,845	9,707	-	-	139
Iowa	115	3,024	1,542	6	14	85	146	4,322,316	35,702	-	6	124
Kansas	403	35,432	25,219	136	55	164	125	2,775,792	31,080	-	-	91
Kentucky	341	1,252	718	-	90	191	402	8,681,690	50,602	6	45	268
Louisiana	296	41,734	58,264	-	5	184	113	1,402,008	8,586	-	-	78
Maine	66	1,261	180	-	-	57	231	2,293,998	(D)	-	-	162
Maryland	82	3,258	1,217	20	20	32	71	3,178,326	24,487	-	-	41
Massachusetts	181	2,214	1,152	7	-	167	262	4,312,968	(D)	-	-	203
Michigan	206	12,163	5,848	7	1	167	243	36,708,953	205,706	-	6	179
Minnesota	95	19,811	16,405	11	12	61	101	13,326,064	176,543	-	-	78
Mississippi	166	7,802	5,567	-	3	141	50	257,500	2,584	-	-	31
Missouri	136	11,268	5,073	4	-	102	247	5,239,118	48,311	5	5	165
Montana	5,598	1,410,375	1,827,764	1,053	520	2,416	64	381,660	6,801	-	5	45
Nebraska	2,248	511,745	525,129	1,177	46	785	76	712,960	7,168	8	-	52
Nevada	1,129	226,633	450,542	426	155	396	-	-	-	-	-	-
New Hampshire	33	1,151	436	-	-	22	95	788,553	(D)	-	-	87
New Jersey	112	1,596	1,341	-	-	58	129	3,318,334	(D)	-	-	109
New Mexico	4,539	204,309	363,165	681	156	2,567	30	113,440	(D)	9	-	10
New York	279	4,626	1,148	-	-	219	347	12,001,438	120,097	-	-	255
North Carolina	138	11,913	4,150	-	49	47	314	5,388,746	28,317	-	19	232
North Dakota	149	45,569	35,207	70	5	66	12	144,000	1,246	-	-	12
Ohio	233	3,653	1,811	-	-	203	277	6,912,152	31,389	-	-	214
Oklahoma	168	22,591	15,595	3	14	129	122	8,539,645	81,534	-	2	89
Oregon	6,591	772,844	1,530,388	1,874	106	2,472	269	9,737,703	120,447	43	5	178
Pennsylvania	136	1,745	1,082	2	6	121	516	5,881,121	34,961	7	-	471
Rhode Island	68	196	255	-	-	64	60	416,820	5,674	-	-	60
South Carolina	196	2,115	1,657	-	6	36	55	459,600	15,452	-	-	22
South Dakota	444	101,231	125,333	290	31	79	52	1,260,724	6,674	-	-	44
Tennessee	153	3,436	1,730	-	44	55	252	5,926,287	70,578	6	42	150
Texas	2,689	353,942	548,906	250	78	1,626	322	9,497,384	(D)	8	-	277
Utah	8,429	759,434	1,484,955	2,205	914	3,969	120	11,689,966	84,325	33	7	53
Vermont	75	240	231	3	-	64	117	1,163,720	(D)	3	-	98
Virginia	69	3,714	2,034	-	3	52	203	12,085,794	177,753	-	8	155
Washington	5,633	932,907	2,084,867	2,493	136	2,223	212	3,784,646	38,981	19	-	124
West Virginia	31	189	178	-	6	22	89	593,040	(D)	-	5	81
Wisconsin	118	9,604	19,300	-	-	90	152	3,464,065	40,333	-	-	130
Wyoming	3,750	987,136	1,522,554	1,137	227	1,385	12	253,760	2,684	-	4	8
Water Resources Regions												
Region 01 New England	437	5,258	2,434	14	18	359	822	12,079,171	(D)	8	26	615
Region 02 Mid-Atlantic	447	11,183	6,418	22	32	291	825	13,865,549	(D)	7	-	701
Region 03 South Atlantic-Gulf	1,138	434,603	536,635	6	91	568	770	49,977,228	665,038	-	22	523
Region 04 Great Lakes	565	19,685	9,278	10	1	472	659	51,372,553	325,701	3	6	509
Region 05 Ohio	743	7,313	3,226	12	116	489	1,178	20,033,155	131,733	6	81	864
Region 06 Tennessee	156	11,724	4,557	-	23	79	259	3,810,067	42,145	6	26	186
Region 07 Upper Mississippi	347	33,403	35,380	15	14	247	447	16,824,598	(D)	-	-	361
Region 08 Lower Mississippi	445	77,359	86,280	6	19	318	160	1,921,748	(D)	-	-	101
Region 09 Souris-Red-Rainy	73	15,991	12,766	9	4	60	18	7,214,500	43,413	-	-	18
Region 10 Missouri	12,596	3,005,388	4,026,463	4,063	755	5,241	526	7,371,346	66,726	19	21	370
Region 11 Arkansas-White-Red	2,022	248,287	323,999	531	265	1,032	282	12,075,324	120,759	8	8	190
Region 12 Texas-Gulf	2,068	323,512	510,922	91	79	1,150	298	8,974,984	(D)	-	-	261
Region 13 Rio Grande	4,736	254,926	359,265	760	155	2,787	17	107,500	(D)	-	-	16
Region 14 Upper Colorado	8,434	1,011,187	2,071,501	2,426	1,599	3,262	73	813,298	8,700	34	12	23
Region 15 Lower Colorado	3,083	563,062	2,449,035	642	90	1,807	113	8,341,096	213,187	2	-	91
Region 16 Great Basin	7,207	794,420	1,453,730	1,971	590	3,456	98	11,411,166	82,275	33	7	53
Region 17 Pacific Northwest	24,393	3,479,063	6,660,409	8,276	742	9,024	573	12,860,725	151,635	56	10	360
Region 18 California	26,316	4,092,386	12,076,342	5,513	1,515	15,640	816	105,818,072	1,294,962	73	31	466
Region 19 Alaska	29	51	34	-	-	22	37	1,366,995	10,662	-	-	28
Region 20 Hawaii	1,411	60,138	151,396	9	21	887	519	22,100,142	201,335	-	-	354

[1] Acres in the open was calculated as total acres minus square feet under protection converted to acres.
[2] May not add due to rounding.
[3] Counts include only farms reporting a source of off-farm water.

Table 6. **Irrigation by Estimated Quantity of Water Applied: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Acres in the open [1]											
		Total			Less than 100 acre-feet			100 to 199 acre-feet			200 to 499 acre-feet		
		Farms	Acres irrigated	Acre-feet of water applied [2]	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Acre-feet of water applied
United States	2013	218,172	55,283,340	88,455,968	140,098	3,502,479	2,734,968	19,109	2,996,660	2,715,995	23,538	6,966,970	7,387,859
	2008	225,631	55,509,548	91,877,613	144,691	4,415,640	3,056,185	20,404	3,172,370	2,883,136	24,726	7,663,067	8,034,934
2013 DATA													
Alabama		955	100,605	44,604	862	30,780	10,027	28	11,872	3,774	46	31,025	14,043
Alaska		103	968	457	101	(D)	(D)	2	(D)	(D)	-	-	-
Arizona		4,280	851,407	3,755,876	3,113	31,040	45,633	146	6,132	20,896	299	23,472	98,443
Arkansas		4,176	4,949,965	6,454,191	1,067	37,266	26,283	240	44,607	30,162	399	144,844	128,453
California		43,840	7,543,928	23,488,939	31,264	363,993	564,346	2,819	228,969	406,897	2,641	310,928	830,049
Colorado		12,397	2,309,178	4,135,873	7,428	196,268	231,501	1,457	146,337	179,372	1,445	322,807	501,815
Connecticut		469	4,557	3,999	463	2,872	1,617	2	(D)	(D)	1	(D)	(D)
Delaware		367	114,738	58,423	242	21,863	(D)	52	20,965	7,309	41	27,355	13,453
Florida		7,270	1,356,561	1,573,095	6,242	119,260	70,459	366	76,314	50,690	286	110,355	88,682
Georgia		3,384	1,196,373	608,568	2,221	195,150	43,235	383	141,275	54,339	473	289,636	145,904
Hawaii		1,569	75,770	249,449	1,504	(D)	9,268	26	(D)	2,981	18	(D)	5,718
Idaho		14,031	3,511,751	6,424,081	8,907	213,758	227,643	1,247	169,264	179,510	1,401	330,177	448,792
Illinois		1,590	541,281	367,207	936	63,681	21,402	237	61,154	32,948	211	114,682	66,695
Indiana		1,622	454,346	234,935	1,048	69,131	21,163	223	72,191	31,980	234	134,648	74,979
Iowa		892	175,514	92,573	650	33,124	11,985	88	23,178	11,861	118	68,036	36,211
Kansas		5,147	2,851,085	3,432,397	1,280	108,477	50,265	740	119,893	109,934	1,274	443,235	427,366
Kentucky		895	50,663	20,335	852	14,916	4,944	26	9,205	3,343	9	9,604	2,928
Louisiana		2,053	1,096,228	1,454,716	820	29,660	13,659	169	25,782	24,348	266	100,290	84,582
Maine		560	20,290	6,959	549	5,314	1,698	5	(D)	(D)	3	(D)	(D)
Maryland		751	100,530	47,592	627	37,220	10,106	54	16,298	7,706	51	30,388	16,760
Massachusetts		1,094	26,800	36,195	1,045	17,713	13,560	26	2,542	3,348	15	2,933	5,091
Michigan		3,163	586,466	311,599	2,569	123,279	34,828	265	80,906	35,826	181	101,212	55,185
Minnesota		1,905	516,063	322,879	1,250	88,710	34,631	292	70,997	40,410	247	133,181	75,229
Mississippi		1,794	1,701,494	1,768,937	698	40,735	15,529	117	28,977	17,350	226	101,731	75,814
Missouri		2,334	1,235,005	1,193,127	1,221	45,000	17,412	291	74,656	37,817	303	166,485	99,844
Montana		7,306	1,872,286	2,502,345	4,088	136,133	86,771	970	169,628	145,589	970	314,382	285,364
Nebraska		15,662	8,297,457	8,069,039	3,878	244,081	142,895	2,958	568,340	452,018	4,407	1,708,181	1,350,264
Nevada		2,149	689,953	1,913,755	1,048	20,915	38,197	100	9,268	14,312	366	40,729	110,017
New Hampshire		345	3,773	1,282	345	3,773	1,282	-	-	-	-	-	-
New Jersey		1,135	80,071	48,086	1,000	29,524	11,422	85	20,954	11,770	32	12,678	9,322
New Mexico		8,673	694,571	1,311,363	7,182	86,852	106,883	524	37,466	70,793	397	69,322	120,784
New York		1,400	47,580	21,300	1,362	28,693	9,475	23	6,237	(D)	4	3,200	(D)
North Carolina		2,186	135,707	53,351	2,059	73,599	21,605	67	22,523	8,276	49	22,611	14,287
North Dakota		509	213,686	148,332	220	25,041	8,931	114	32,308	16,778	104	52,433	33,953
Ohio		1,064	40,854	25,160	999	12,492	6,002	31	8,912	4,633	29	11,240	9,256
Oklahoma		1,568	426,296	522,118	869	34,589	14,620	180	31,784	24,015	238	75,674	75,846
Oregon		11,993	1,553,034	2,970,591	8,566	157,120	176,383	907	77,102	125,242	1,415	239,977	395,402
Pennsylvania		2,187	22,523	9,431	2,176	18,918	7,659	10	(D)	(D)	1	(D)	(D)
Rhode Island		248	2,996	2,198	245	2,586	1,826	3	410	372	-	-	-
South Carolina		967	133,816	77,234	856	33,578	10,567	31	10,522	4,275	40	22,433	11,990
South Dakota		1,212	369,802	291,815	546	49,991	22,810	234	55,609	33,095	297	119,565	93,149
Tennessee		826	145,965	57,136	703	42,913	9,010	68	32,274	9,141	38	31,386	11,162
Texas		12,838	4,489,837	5,799,584	6,938	176,582	126,856	770	165,171	117,082	2,170	656,372	704,719
Utah		10,329	1,124,729	2,378,450	6,857	127,821	171,271	1,394	123,438	193,533	932	155,919	279,499
Vermont		380	2,127	911	380	2,127	911	-	-	-	-	-	-
Virginia		1,029	49,141	25,395	970	22,717	8,264	30	7,669	3,986	24	10,286	8,106
Washington		10,383	1,623,123	3,662,524	7,775	123,690	169,584	492	45,138	73,768	704	124,323	228,017
West Virginia		185	1,319	686	185	1,319	686	-	-	-	-	-	-
Wisconsin		2,074	472,856	387,148	1,515	58,228	23,061	186	45,401	25,691	197	73,515	60,578
Wyoming		4,883	1,418,272	2,089,728	2,377	91,623	70,973	631	88,177	83,068	936	218,006	287,424
Water Resources Regions													
Region 01 New England		2,849	58,842	50,899	2,780	32,684	20,249	36	5,032	4,700	19	5,223	6,210
Region 02 Mid-Atlantic		5,842	388,390	196,197	5,370	146,291	48,431	247	72,602	34,218	152	83,957	48,739
Region 03 South Atlantic-Gulf		15,125	2,935,603	2,369,716	12,585	464,698	161,369	887	267,114	123,044	897	469,934	276,534
Region 04 Great Lakes		5,290	817,946	448,422	4,414	165,284	50,011	368	110,098	50,904	288	157,774	89,321
Region 05 Ohio		3,292	354,602	183,456	2,848	73,357	24,786	198	57,974	26,919	163	90,124	50,084
Region 06 Tennessee		774	57,459	26,091	707	17,333	(D)	28	(D)	(D)	30	(D)	9,460
Region 07 Upper Mississippi		5,834	1,533,177	1,061,086	3,909	222,330	84,904	740	191,234	102,986	700	348,929	217,853
Region 08 Lower Mississippi		7,554	8,013,416	9,628,711	1,863	126,012	51,489	671	156,731	90,916	1,006	448,414	329,012
Region 09 Souris-Red-Rainy		425	175,021	118,621	209	20,947	6,074	102	27,137	14,519	68	36,044	21,961
Region 10 Missouri		33,072	13,598,476	14,890,524	12,286	638,160	388,143	5,290	971,484	773,272	7,515	2,686,720	2,337,209
Region 11 Arkansas-White-Red		10,163	5,227,723	6,952,945	4,091	145,401	94,174	894	156,748	126,551	2,020	672,275	656,617
Region 12 Texas-Gulf		10,165	3,027,926	3,715,944	5,885	155,715	121,810	573	106,476	86,002	1,497	465,636	510,363
Region 13 Rio Grande		9,129	802,574	1,587,805	7,544	98,099	113,604	559	51,196	77,253	415	73,374	110,941
Region 14 Upper Colorado		10,339	1,321,937	2,638,943	6,410	151,182	193,295	1,404	126,536	183,262	1,272	214,716	422,405
Region 15 Lower Colorado		5,005	915,691	3,954,057	3,584	35,669	52,823	222	9,892	28,936	390	33,124	119,195
Region 16 Great Basin		9,420	1,557,939	3,628,952	6,101	121,461	162,203	938	89,028	126,167	905	147,361	276,553
Region 17 Pacific Northwest		37,837	6,723,954	13,002,330	26,293	501,935	559,185	3,102	355,870	452,134	3,470	683,422	1,046,475
Region 18 California		44,385	7,695,926	23,751,363	31,614	377,557	587,337	2,822	229,629	407,227	2,713	326,957	853,209
Region 19 Alaska		103	968	457	101	(D)	(D)	2	(D)	(D)	-	-	-
Region 20 Hawaii		1,569	75,770	249,449	1,504	(D)	9,268	26	(D)	2,981	18	(D)	5,718

See footnote(s) at end of table.

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Table 6. **Irrigation by Estimated Quantity of Water Applied: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Acres in the open [1] - con.								
		500 to 999 acre-feet			1,000 to 1,999 acre-feet			2,000 acre-feet or more		
		Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Acre-feet of water applied	Farms	Acres irrigated	Acre-feet of water applied
United States	2013	14,069	7,751,010	9,852,171	11,582	10,631,863	16,146,214	9,776	23,434,358	49,618,761
	2008	14,685	8,254,221	10,418,706	11,599	10,494,366	16,110,837	9,526	21,509,886	51,373,814
2013 DATA										
Alabama		11	13,150	6,838	8	13,778	9,922	-	-	-
Alaska		-	-	-	-	-	-	-	-	-
Arizona		161	30,467	115,250	160	60,903	238,277	401	699,393	3,237,377
Arkansas		560	419,449	380,249	786	1,027,690	1,139,479	1,124	3,276,109	4,749,565
California		1,996	499,408	1,376,956	2,247	1,015,899	3,131,695	2,873	5,124,731	17,178,996
Colorado		945	354,271	673,419	670	508,896	901,141	452	780,599	1,648,625
Connecticut		3	(D)	1,742	-	-	-	-	-	-
Delaware		21	24,378	14,191	10	(D)	(D)	1	(D)	(D)
Florida		157	111,559	108,418	115	152,694	163,124	104	786,379	1,091,722
Georgia		200	235,197	138,455	69	180,056	98,319	38	155,059	128,316
Hawaii		6	1,686	4,085	6	6,701	8,236	9	53,433	219,161
Idaho		966	326,077	658,654	798	643,268	1,164,660	712	1,829,207	3,744,822
Illinois		127	133,818	88,149	57	83,104	75,751	22	84,842	82,262
Indiana		79	101,365	54,868	33	62,027	40,768	5	14,984	11,177
Iowa		24	(D)	16,175	11	23,433	(D)	1	(D)	(D)
Kansas		902	558,556	631,883	650	714,998	950,299	301	905,926	1,262,650
Kentucky		4	3,960	2,528	4	12,978	6,592	-	-	-
Louisiana		280	178,711	197,100	308	291,744	441,533	210	470,041	693,494
Maine		2	(D)	(D)	-	-	-	1	(D)	(D)
Maryland		18	(D)	(D)	1	(D)	(D)	-	-	-
Massachusetts		5	1,382	(D)	2	(D)	(D)	1	(D)	(D)
Michigan		85	96,430	56,996	39	66,735	51,619	24	117,904	77,145
Minnesota		66	67,475	45,192	31	61,351	40,392	19	94,349	87,025
Mississippi		225	198,675	162,978	255	365,850	359,567	273	965,526	1,137,699
Missouri		189	188,470	127,388	166	248,514	230,571	164	511,880	680,095
Montana		635	343,476	442,871	389	353,355	513,514	254	555,312	1,028,236
Nebraska		2,036	1,617,516	1,482,007	1,683	2,188,973	2,295,537	700	1,970,366	2,346,318
Nevada		176	55,604	125,715	232	113,263	314,323	227	450,174	1,311,191
New Hampshire		-	-	-	-	-	-	-	-	-
New Jersey		12	9,357	7,448	5	(D)	(D)	1	(D)	(D)
New Mexico		289	124,936	200,445	178	129,266	254,706	103	246,729	557,752
New York		10	(D)	(D)	1	(D)	(D)	-	-	-
North Carolina		9	(D)	(D)	2	(D)	(D)	-	-	-
North Dakota		50	41,319	33,363	9	16,767	13,667	12	45,818	41,640
Ohio		3	(D)	(D)	2	(D)	(D)	-	-	-
Oklahoma		144	70,861	100,966	95	84,601	130,261	42	128,787	176,410
Oregon		472	208,621	328,370	341	244,254	472,650	292	625,960	1,472,544
Pennsylvania		-	-	-	-	-	-	-	-	-
Rhode Island		-	-	-	-	-	-	-	-	-
South Carolina		26	26,988	18,347	9	20,140	13,677	5	20,155	18,378
South Dakota		91	57,196	62,422	36	49,173	45,367	8	38,268	34,972
Tennessee		12	19,207	8,349	3	(D)	(D)	2	(D)	(D)
Texas		1,439	913,663	986,971	952	986,003	1,315,930	569	1,592,046	2,548,026
Utah		560	181,989	380,724	394	234,047	540,464	192	301,515	812,959
Vermont		-	-	-	-	-	-	-	-	-
Virginia		2	(D)	(D)	3	(D)	(D)	-	-	-
Washington		611	189,719	435,551	419	252,016	580,041	382	888,237	2,175,563
West Virginia		-	-	-	-	-	-	-	-	-
Wisconsin		98	72,140	70,214	39	67,480	53,854	39	156,092	153,750
Wyoming		362	204,100	274,352	364	308,063	497,492	213	508,303	876,419
Water Resources Regions										
Region 01 New England		10	(D)	6,497	2	(D)	(D)	2	(D)	(D)
Region 02 Mid-Atlantic		52	(D)	34,074	19	28,592	(D)	2	(D)	(D)
Region 03 South Atlantic-Gulf		402	397,221	277,861	207	375,043	292,492	147	961,593	1,238,416
Region 04 Great Lakes		130	143,597	87,824	62	105,396	80,843	28	135,797	89,519
Region 05 Ohio		56	65,419	37,982	23	51,948	33,585	4	15,780	10,100
Region 06 Tennessee		6	(D)	3,788	3	(D)	3,483	-	-	-
Region 07 Upper Mississippi		286	275,611	200,485	126	201,524	165,271	73	293,549	289,587
Region 08 Lower Mississippi		1,084	849,387	757,540	1,382	1,774,601	1,979,803	1,548	4,658,271	6,419,951
Region 09 Souris-Red-Rainy		29	29,857	20,162	8	16,091	12,000	9	44,945	43,905
Region 10 Missouri		3,893	2,693,873	2,797,432	2,757	3,204,857	3,748,731	1,331	3,403,382	4,845,737
Region 11 Arkansas-White-Red		1,236	711,487	855,497	1,006	1,088,402	1,450,943	916	2,453,410	3,769,163
Region 12 Texas-Gulf		1,143	725,069	778,059	770	794,737	1,059,168	297	780,293	1,160,542
Region 13 Rio Grande		246	114,081	177,253	180	115,655	268,781	185	350,169	839,973
Region 14 Upper Colorado		625	198,987	447,894	480	297,823	625,786	148	332,693	766,301
Region 15 Lower Colorado		216	42,782	148,735	181	72,071	271,471	412	722,153	3,332,897
Region 16 Great Basin		593	199,755	413,942	484	281,936	658,111	399	718,398	1,991,976
Region 17 Pacific Northwest		2,026	721,018	1,403,492	1,588	1,161,426	2,257,874	1,358	3,300,283	7,283,170
Region 18 California		2,030	519,914	1,399,569	2,298	1,048,578	3,202,546	2,908	5,193,291	17,301,475
Region 19 Alaska		-	-	-	-	-	-	-	-	-
Region 20 Hawaii		6	1,686	4,085	6	6,701	8,236	9	53,433	219,161

See footnote(s) at end of table.

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Table 6. **Irrigation by Estimated Quantity of Water Applied: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Area under protection											
	Total			Less than 250,000 gallons			250,000 to 499,999 gallons			500,000 to 999,999 gallons		
	Farms	Acres irrigated [3]	Gallons applied (1,000)	Farms	Acres irrigated [3]	Gallons applied (1,000)	Farms	Acres irrigated [3]	Gallons applied (1,000)	Farms	Acres irrigated [3]	Gallons applied (1,000)
United States 2013	24,829	32,263	17,870,533	19,108	3,492	861,748	2,105	1,938	729,608	1,231	1,874	863,470
2008	20,610	31,430	25,768,753	37,242	3,442	833,943	1,916	1,537	690,834	1,572	2,087	1,114,277
2013 DATA												
Alabama	301	584	508,017	188	39	11,611	33	28	12,725	8	8	5,808
Alaska	139	40	13,784	130	7	2,441	4	3	1,135	-	-	-
Arizona	205	403	346,182	144	29	(D)	20	8	6,989	20	40	15,790
Arkansas	176	91	101,483	159	34	9,292	7	10	3,281	6	1	3,910
California	1,569	5,591	3,520,721	850	132	42,330	135	158	43,713	160	261	113,772
Colorado	241	315	191,795	179	30	7,815	33	16	11,594	10	8	5,910
Connecticut	473	710	355,832	347	(D)	9,155	59	(D)	20,335	28	33	20,568
Delaware	72	6	1,123	72	6	1,123	-	-	-	-	-	-
Florida	1,789	8,489	5,364,931	794	(D)	44,939	242	294	83,817	142	(D)	102,101
Georgia	446	515	370,124	308	45	18,146	37	22	12,533	35	33	26,058
Hawaii	612	550	267,863	386	89	19,580	91	108	33,493	36	44	25,085
Idaho	179	59	33,894	161	14	6,094	-	-	-	-	-	-
Illinois	467	420	163,485	402	(D)	(D)	18	(D)	(D)	12	(D)	(D)
Indiana	471	171	49,160	441	(D)	(D)	23	(D)	(D)	1	(D)	(D)
Iowa	364	203	141,902	331	(D)	(D)	10	(D)	3,435	16	(D)	(D)
Kansas	192	185	83,755	149	22	7,946	19	15	6,872	8	13	5,485
Kentucky	552	251	96,311	501	92	21,180	35	17	10,391	5	7	2,850
Louisiana	319	187	96,599	209	25	9,883	38	37	13,999	44	50	25,354
Maine	651	244	102,353	620	(D)	20,929	16	(D)	4,000	-	-	-
Maryland	343	318	106,450	280	(D)	10,531	25	(D)	8,330	16	24	10,029
Massachusetts	613	251	92,710	538	(D)	(D)	36	(D)	(D)	22	(D)	(D)
Michigan	1,070	1,224	342,773	852	229	30,929	74	(D)	25,832	81	261	57,386
Minnesota	485	547	304,154	391	107	26,438	44	44	14,287	16	26	11,050
Mississippi	149	67	35,423	127	21	7,851	13	11	(D)	2	(D)	(D)
Missouri	556	194	102,943	496	69	23,139	22	11	8,872	12	9	9,492
Montana	284	56	35,168	259	19	9,927	5	1	1,475	10	7	8,381
Nebraska	187	47	26,970	152	16	7,274	26	23	10,719	9	8	8,977
Nevada	19	8	4,407	19	8	4,407	-	-	-	-	-	-
New Hampshire	351	130	49,037	312	(D)	(D)	17	(D)	(D)	12	(D)	(D)
New Jersey	527	802	307,645	361	115	16,879	93	69	31,405	27	64	15,954
New Mexico	168	20	12,933	156	(D)	(D)	10	(D)	(D)	-	-	-
New York	1,066	877	274,807	899	238	47,452	80	79	25,564	41	50	29,491
North Carolina	1,073	834	419,636	891	182	39,151	110	110	38,428	35	80	26,111
North Dakota	42	21	7,606	36	5	3,106	-	-	-	6	17	4,500
Ohio	710	748	214,671	602	130	21,427	34	62	11,676	30	68	20,643
Oklahoma	212	269	109,646	173	61	7,135	35	39	14,188	-	-	-
Oregon	910	1,024	631,897	690	94	34,201	73	50	24,797	48	54	31,265
Pennsylvania	1,820	795	261,502	1,623	315	76,174	102	98	38,056	39	76	27,545
Rhode Island	197	33	10,860	184	26	5,956	13	7	4,904	-	-	-
South Carolina	264	71	48,283	211	35	9,144	26	24	7,477	9	2	5,616
South Dakota	140	30	12,710	131	20	8,750	9	10	3,960	-	-	-
Tennessee	483	860	402,528	318	39	21,259	54	28	18,221	48	78	34,296
Texas	748	2,053	1,079,049	390	56	20,621	105	55	36,352	110	124	77,019
Utah	154	426	277,312	109	53	5,724	7	5	1,987	8	15	7,200
Vermont	353	66	31,682	321	(D)	(D)	23	(D)	(D)	8	(D)	(D)
Virginia	768	829	446,874	566	107	24,314	125	72	42,896	21	36	15,332
Washington	957	184	97,907	832	45	19,447	65	40	23,563	36	45	25,934
West Virginia	184	46	32,859	154	(D)	(D)	18	(D)	(D)	11	(D)	(D)
Wisconsin	741	414	274,667	635	(D)	31,804	41	43	14,765	35	54	23,377
Wyoming	37	7	6,111	29	2	951	-	-	-	8	5	5,160
Water Resources Regions												
Region 01 New England	2,408	1,387	614,723	2,124	350	(D)	141	113	(D)	62	78	(D)
Region 02 Mid-Atlantic	3,577	2,641	1,016,451	2,912	641	130,566	355	279	121,192	110	202	75,123
Region 03 South Atlantic-Gulf	3,874	10,807	6,925,027	2,372	472	128,432	453	486	156,943	231	323	167,578
Region 04 Great Lakes	2,413	2,712	892,795	1,965	478	93,219	177	232	61,317	140	322	94,321
Region 05 Ohio	2,135	1,371	523,725	1,882	333	70,576	121	104	40,155	62	133	43,994
Region 06 Tennessee	532	204	106,126	428	68	(D)	67	34	(D)	27	30	(D)
Region 07 Upper Mississippi	1,718	1,054	586,885	1,472	284	74,080	87	101	28,248	64	85	49,292
Region 08 Lower Mississippi	482	321	216,780	346	47	17,761	45	47	17,280	49	55	28,613
Region 09 Souris-Red-Rainy	75	193	52,017	67	(D)	(D)	-	-	-	6	17	4,500
Region 10 Missouri	1,199	758	409,756	1,031	(D)	44,785	88	64	34,994	33	25	25,898
Region 11 Arkansas-White-Red	619	465	247,906	492	120	25,816	78	65	28,478	22	18	14,595
Region 12 Texas-Gulf	707	2,008	1,041,778	386	45	18,151	83	(D)	29,084	102	120	71,819
Region 13 Rio Grande	163	19	12,558	152	(D)	(D)	10	(D)	(D)	-	-	-
Region 14 Upper Colorado	98	23	9,669	88	14	3,759	-	-	-	10	8	5,910
Region 15 Lower Colorado	192	403	346,078	131	29	(D)	20	8	6,989	20	40	15,790
Region 16 Great Basin	152	425	279,776	107	53	8,187	7	5	1,987	8	15	7,200
Region 17 Pacific Northwest	2,149	1,268	773,767	1,777	164	66,211	143	91	49,835	89	100	60,980
Region 18 California	1,585	5,615	3,533,066	860	135	42,675	135	158	43,713	160	261	113,772
Region 19 Alaska	139	40	13,784	130	7	2,441	4	3	1,135	-	-	-
Region 20 Hawaii	612	550	267,863	386	89	19,580	91	108	33,493	36	44	25,085

See footnote(s) at end of table.

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Table 6. **Irrigation by Estimated Quantity of Water Applied: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Area under protection - con.								
	1,000,000 to 1,999,999 gallons			2,000,000 to 4,999,999 gallons			5,000,000 gallons or more		
	Farms	Acres irrigated [3]	Gallons applied (1,000)	Farms	Acres irrigated [3]	Gallons applied (1,000)	Farms	Acres irrigated [3]	Gallons applied (1,000)
United States 2013	911	2,582	1,243,733	821	4,672	2,548,503	653	17,705	11,623,472
2008	1,123	3,660	1,564,169	792	4,315	2,454,653	686	16,390	19,110,877
2013 DATA									
Alabama	27	38	37,535	18	76	47,464	27	395	392,874
Alaska	-	-	-	5	30	10,207	-	-	-
Arizona	13	19	(D)	-	-	-	8	307	302,552
Arkansas	-	-	-	-	-	-	4	46	85,000
California	129	411	180,480	141	896	481,759	154	3,733	2,658,667
Colorado	9	12	14,322	6	28	14,512	4	220	137,641
Connecticut	16	30	18,185	17	(D)	51,990	6	454	235,599
Delaware	-	-	-	-	-	-	-	-	-
Florida	212	605	(D)	212	1,214	(D)	187	6,018	(D)
Georgia	14	(D)	22,852	30	147	85,401	22	(D)	205,134
Hawaii	71	186	88,084	23	108	75,485	5	15	26,136
Idaho	18	45	27,801	-	-	-	-	-	-
Illinois	21	(D)	(D)	12	(D)	(D)	2	(D)	(D)
Indiana	-	-	-	6	(D)	(D)	-	-	-
Iowa	-	-	-	5	(D)	(D)	2	(D)	(D)
Kansas	8	70	8,733	-	-	-	8	66	54,720
Kentucky	-	-	-	6	19	15,641	5	(D)	46,250
Louisiana	23	54	29,658	5	21	17,704	-	-	-
Maine	9	(D)	16,416	3	(D)	7,007	3	(D)	54,000
Maryland	5	9	(D)	15	(D)	(D)	2	(D)	(D)
Massachusetts	9	(D)	(D)	7	(D)	(D)	1	(D)	(D)
Michigan	29	123	41,519	26	257	92,194	8	243	94,912
Minnesota	5	6	6,000	17	116	51,590	12	248	194,789
Mississippi	-	-	-	7	32	21,749	-	-	-
Missouri	11	16	12,820	15	89	48,620	-	-	-
Montana	5	20	5,040	5	9	10,345	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	8	(D)	(D)	1	(D)	(D)	1	(D)	(D)
New Jersey	10	42	10,582	24	128	71,174	12	384	161,651
New Mexico	1	(D)	(D)	1	(D)	(D)	-	-	-
New York	6	14	6,600	27	84	63,674	13	412	102,026
North Carolina	13	28	16,962	18	64	54,023	6	370	244,959
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	29	152	41,086	9	58	22,640	6	278	97,200
Oklahoma	-	-	-	-	-	-	4	169	88,322
Oregon	38	118	49,300	29	126	83,119	32	582	409,214
Pennsylvania	28	61	34,297	28	245	85,431	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	18	9	26,046	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	27	65	41,256	16	74	39,426	20	577	248,070
Texas	55	79	82,251	42	198	145,708	46	1,541	717,098
Utah	-	-	-	12	37	28,797	18	316	233,605
Vermont	-	-	-	1	(D)	(D)	-	-	-
Virginia	14	79	20,295	19	110	53,432	23	425	290,606
Washington	24	54	28,962	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	1	(D)	(D)
Wisconsin	6	12	8,670	13	58	35,553	11	(D)	160,500
Wyoming	-	-	-	-	-	-	-	-	-
Water Resources Regions									
Region 01 New England	42	88	(D)	28	157	(D)	11	601	(D)
Region 02 Mid-Atlantic	63	206	78,983	102	637	288,774	35	676	321,814
Region 03 South Atlantic-Gulf	282	785	393,191	289	1,561	885,351	247	7,181	5,193,532
Region 04 Great Lakes	53	250	73,032	44	378	137,840	34	1,052	433,066
Region 05 Ohio	32	87	50,068	19	88	58,316	19	626	260,614
Region 06 Tennessee	2	(D)	(D)	4	(D)	(D)	4	46	(D)
Region 07 Upper Mississippi	27	(D)	38,420	52	269	168,306	16	263	228,540
Region 08 Lower Mississippi	28	66	37,388	10	61	30,738	4	(D)	85,000
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	2	(D)	(D)
Region 10 Missouri	26	109	28,903	15	(D)	49,826	6	321	225,350
Region 11 Arkansas-White-Red	7	9	12,012	8	18	23,962	12	235	143,042
Region 12 Texas-Gulf	56	81	83,880	34	(D)	121,746	46	1,541	717,098
Region 13 Rio Grande	-	-	-	1	(D)	(D)	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	13	19	(D)	-	-	-	8	307	302,552
Region 16 Great Basin	-	-	-	12	37	28,797	18	316	233,605
Region 17 Pacific Northwest	80	217	106,063	28	114	81,464	32	582	409,214
Region 18 California	129	411	180,480	147	918	493,759	154	3,733	2,658,667
Region 19 Alaska	-	-	-	5	30	10,207	-	-	-
Region 20 Hawaii	71	186	88,084	23	108	75,485	5	15	26,136

[1] Acres in the open was calculated as total acres minus square feet under protection converted to acres.
[2] May not add due to rounding.
[3] Acres irrigated are the square feet under protection converted to acres.

Table 7. **Irrigation Wells Used on Farms: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Wells used									
			With flow meters				With backflow prevention devices			
	Farms	Number	Farms	Number	Acres irrigated in the open	Square feet under protection irrigated	Farms	Number	Acres irrigated in the open	Square feet under protection irrigated
United States	121,491	475,796	35,720	132,700	12,968,068	318,407,073	76,193	310,483	24,421,398	630,741,503
Alabama	567	1,193	33	61	3,605	592,320	348	723	30,954	7,027,332
Alaska	114	142	6	10	12	6,560	44	60	336	191,068
Arizona	1,956	4,942	585	1,801	132,580	594,018	809	2,290	141,629	710,360
Arkansas	3,715	48,310	568	2,663	270,359	147,600	1,695	15,890	1,486,547	254,496
California	23,602	59,499	6,264	15,331	1,380,804	90,634,000	14,577	35,588	2,306,649	128,611,243
Colorado	2,674	10,105	2,002	7,013	685,901	10,158,000	1,840	7,968	796,767	10,829,364
Connecticut	459	582	22	30	16	(D)	265	353	940	3,493,820
Delaware	344	1,564	62	193	13,104	24,360	234	1,166	76,361	28,372
Florida	7,033	20,783	1,309	6,224	386,307	(D)	4,581	14,418	530,056	210,338,894
Georgia	3,034	10,726	1,627	7,304	733,933	9,289,015	2,097	8,374	772,201	18,690,488
Hawaii	129	171	60	68	4,323	212,000	51	60	3,945	212,000
Idaho	3,073	9,194	688	1,970	431,708	13,500	2,124	6,926	1,074,307	375,461
Illinois	1,484	5,252	153	536	62,180	4,984,587	1,122	4,148	416,202	11,935,434
Indiana	1,405	4,133	127	403	36,250	578,866	887	2,941	293,605	1,818,316
Iowa	744	1,877	95	240	20,895	89,400	458	1,291	120,343	5,334,721
Kansas	4,745	23,114	4,207	20,556	2,548,343	3,044,464	3,877	19,999	2,451,136	6,104,332
Kentucky	249	427	28	65	4,649	42,000	144	266	14,197	196,128
Louisiana	1,599	8,553	60	196	24,913	284,160	716	3,732	375,353	3,337,008
Maine	540	649	30	52	(D)	(D)	304	343	10,781	1,811,410
Maryland	600	1,515	118	275	13,911	496,024	434	1,121	53,100	6,938,519
Massachusetts	691	1,087	30	32	(D)	(D)	397	643	1,780	3,914,855
Michigan	2,822	7,554	355	753	29,652	7,069,700	2,020	5,801	322,170	19,305,787
Minnesota	1,890	5,385	601	1,743	165,049	1,808,412	1,292	4,181	354,423	11,137,644
Mississippi	1,451	14,670	280	894	102,772	-	862	6,294	655,433	2,405,903
Missouri	1,798	13,621	90	366	40,633	41,300	852	4,412	370,844	4,075,171
Montana	1,056	1,653	123	157	15,601	402,400	295	531	23,392	831,148
Nebraska	14,897	77,155	7,503	30,138	3,141,452	-	11,731	58,982	6,090,003	844,608
Nevada	830	2,593	353	1,166	184,508	349,200	570	1,722	203,259	118,000
New Hampshire	341	456	10	18	22	(D)	241	322	737	2,548,077
New Jersey	961	2,020	210	471	20,531	9,092,486	691	1,501	40,788	15,456,648
New Mexico	4,027	8,759	1,493	3,207	190,131	344,260	1,419	4,473	255,277	606,770
New York	1,085	1,606	102	187	3,919	2,131,200	563	902	16,094	7,346,933
North Carolina	1,290	2,314	83	246	9,336	522,200	809	1,640	27,657	9,211,286
North Dakota	326	1,483	177	1,024	98,522	30,240	265	1,306	129,862	30,240
Ohio	725	1,064	38	48	1,983	826,700	415	668	19,120	6,698,485
Oklahoma	1,293	4,912	216	809	63,618	-	793	3,472	271,101	292,980
Oregon	4,804	8,779	1,222	1,927	171,827	8,299,994	2,221	4,372	238,621	19,301,434
Pennsylvania	2,140	2,908	135	149	930	1,251,806	1,345	1,927	7,117	14,007,783
Rhode Island	167	267	11	11	11	-	75	110	88	683,700
South Carolina	759	1,818	121	364	26,112	9,540	581	1,350	67,524	1,146,685
South Dakota	768	2,161	108	187	21,055	-	491	1,316	142,686	363,135
Tennessee	566	1,472	85	206	17,648	251,528	373	1,000	81,211	22,422,076
Texas	9,542	81,511	2,883	19,911	1,455,096	16,985,845	6,624	65,284	3,218,959	35,271,381
Utah	1,433	3,055	187	397	32,932	2,776,000	500	1,296	142,757	-
Vermont	276	309	3	3	9	-	135	146	166	645,588
Virginia	834	1,185	126	207	1,256	8,363,782	479	734	3,113	16,760,427
Washington	4,196	6,801	611	1,389	241,202	116,000	1,872	3,518	345,235	2,397,720
West Virginia	119	150	3	6	6	-	96	125	349	998,810
Wisconsin	1,851	5,169	373	1,318	122,666	8,031,288	1,313	4,042	351,607	13,537,863
Wyoming	487	1,148	144	375	44,945	-	266	756	84,616	141,600
Water Resources Regions										
Region 01 New England	2,324	3,170	103	143	10,900	(D)	1,376	1,868	14,410	12,651,262
Region 02 Mid-Atlantic	5,215	9,842	751	1,476	53,351	21,359,658	3,334	6,791	190,295	57,171,572
Region 03 South Atlantic-Gulf	12,862	37,228	3,191	14,255	1,159,286	136,914,947	8,529	26,796	1,424,757	249,257,593
Region 04 Great Lakes	4,506	10,787	531	1,284	75,891	14,843,588	3,072	7,994	464,999	33,958,554
Region 05 Ohio	2,076	4,456	150	362	20,737	(D)	1,263	2,927	200,294	26,828,247
Region 06 Tennessee	472	714	38	64	3,165	238,528	278	426	12,577	4,081,076
Region 07 Upper Mississippi	5,287	15,746	1,011	3,193	318,871	7,339,799	3,616	12,179	1,121,067	27,261,384
Region 08 Lower Mississippi	6,869	74,385	938	3,854	417,855	428,160	3,397	27,261	2,687,697	3,880,776
Region 09 Souris-Red-Rainy	349	1,459	139	725	63,481	30,240	261	1,191	105,725	34,580
Region 10 Missouri	20,893	97,219	10,772	41,901	4,462,140	12,929,764	15,603	74,138	7,771,269	23,076,631
Region 11 Arkansas-White-Red	7,528	48,391	4,303	22,973	2,775,148	382,600	5,640	35,349	3,609,724	4,682,291
Region 12 Texas-Gulf	7,508	65,870	1,737	12,602	658,618	16,873,845	5,069	52,498	2,064,485	34,521,383
Region 13 Rio Grande	4,620	9,999	2,004	5,685	358,648	391,260	1,611	4,796	287,701	653,768
Region 14 Upper Colorado	622	1,096	54	127	5,806	-	163	269	11,132	14,700
Region 15 Lower Colorado	2,204	5,335	635	1,880	139,605	600,318	1,073	2,679	154,770	716,660
Region 16 Great Basin	1,882	4,982	505	1,417	220,204	3,125,200	975	2,778	345,841	118,000
Region 17 Pacific Northwest	12,262	24,953	2,506	5,256	826,328	8,831,894	6,218	14,677	1,616,013	22,817,515
Region 18 California	23,769	59,851	6,286	15,425	1,393,699	90,627,700	14,620	35,746	2,334,361	128,612,443
Region 19 Alaska	114	142	6	10	12	6,560	44	60	336	191,068
Region 20 Hawaii	129	171	60	68	4,323	212,000	51	60	3,945	212,000

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Table 7. **Irrigation Wells Used on Farms: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms by number of wells used									
	1 well	2 wells	3 wells	4 wells	5 wells	6 wells	7 to 9 wells	10 to 14 wells	15 to 19 wells	20 wells or more
United States	60,706	20,983	10,019	6,437	4,103	2,876	5,106	4,625	2,477	4,159
Alabama	336	136	18	30	15	15	9	2	-	6
Alaska	91	20	1	2	-	-	-	-	-	-
Arizona	1,226	375	107	73	20	2	55	56	24	18
Arkansas	576	340	249	161	145	164	385	470	308	917
California	13,860	4,147	1,946	1,374	379	388	592	491	143	282
Colorado	1,202	479	269	89	145	150	135	105	29	71
Connecticut	365	68	23	3	-	-	-	-	-	-
Delaware	97	76	34	38	20	20	23	18	8	10
Florida	3,782	1,476	739	325	199	74	164	85	55	134
Georgia	1,326	547	252	244	157	86	212	100	63	47
Hawaii	107	13	8	-	-	-	-	1	-	-
Idaho	1,630	675	196	136	95	94	94	81	31	41
Illinois	701	270	133	78	56	47	71	72	32	24
Indiana	673	249	151	97	65	41	50	47	19	13
Iowa	445	110	71	23	28	18	19	12	13	5
Kansas	955	1,138	543	618	387	143	417	322	99	123
Kentucky	165	56	12	-	7	5	-	3	1	-
Louisiana	425	278	198	123	110	96	115	131	51	72
Maine	463	63	13	-	-	-	-	-	-	1
Maryland	336	84	69	23	28	12	23	18	5	2
Massachusetts	465	170	29	6	7	1	-	13	-	-
Michigan	1,679	440	229	168	42	75	62	50	24	53
Minnesota	1,051	298	220	85	56	54	51	32	13	30
Mississippi	255	181	119	100	80	78	159	157	101	221
Missouri	599	320	131	54	55	45	129	148	89	228
Montana	753	131	149	4	11	-	-	4	-	4
Nebraska	4,269	2,519	1,756	1,377	1,077	535	1,052	1,237	547	528
Nevada	310	267	69	37	40	22	30	40	5	10
New Hampshire	242	89	9	-	-	-	1	-	-	-
New Jersey	567	177	102	35	25	17	13	21	-	4
New Mexico	2,915	532	210	72	32	35	65	86	39	41
New York	776	212	49	11	20	10	7	-	-	-
North Carolina	748	370	73	33	32	2	24	4	2	2
North Dakota	114	71	30	15	24	10	29	19	2	12
Ohio	581	88	26	15	5	6	-	1	2	1
Oklahoma	577	255	125	85	41	30	79	36	32	33
Oregon	3,348	861	231	105	52	34	64	68	24	17
Pennsylvania	1,621	370	106	24	9	2	4	4	-	-
Rhode Island	87	72	-	4	4	-	-	-	-	-
South Carolina	366	183	108	17	17	26	21	13	4	4
South Dakota	385	125	94	30	24	47	34	20	5	4
Tennessee	294	111	41	49	20	16	18	11	1	5
Texas	3,275	1,238	574	491	469	377	762	557	657	1,142
Utah	909	273	83	38	21	46	35	8	16	4
Vermont	250	19	7	-	-	-	-	-	-	-
Virginia	637	151	16	4	12	-	10	4	-	-
Washington	3,268	484	232	73	25	12	42	29	15	16
West Virginia	96	15	8	-	-	-	-	-	-	-
Wisconsin	1,199	299	127	48	36	22	34	36	18	32
Wyoming	309	62	34	20	11	19	17	13	-	2
Water Resources Regions										
Region 01 New England	1,745	465	74	13	11	1	1	13	-	1
Region 02 Mid-Atlantic	3,417	957	369	133	110	61	80	59	13	16
Region 03 South Atlantic-Gulf	6,639	2,764	1,206	658	435	205	430	208	124	193
Region 04 Great Lakes	2,845	682	350	224	75	94	81	63	32	60
Region 05 Ohio	1,347	372	107	72	50	36	26	36	20	10
Region 06 Tennessee	336	91	16	14	8	1	6	-	-	-
Region 07 Upper Mississippi	2,965	911	464	203	147	129	170	150	66	82
Region 08 Lower Mississippi	1,098	723	642	416	368	374	690	830	457	1,271
Region 09 Souris-Red-Rainy	148	43	52	13	23	14	30	16	3	7
Region 10 Missouri	6,766	3,725	2,317	1,851	1,400	731	1,422	1,481	602	598
Region 11 Arkansas-White-Red	1,821	1,539	842	569	435	295	694	503	327	503
Region 12 Texas-Gulf	2,765	921	402	357	342	283	490	423	559	966
Region 13 Rio Grande	3,496	523	190	72	63	54	74	69	16	63
Region 14 Upper Colorado	470	70	56	4	-	1	16	-	4	1
Region 15 Lower Colorado	1,372	453	124	76	20	2	59	56	24	18
Region 16 Great Basin	916	487	153	72	62	67	42	55	17	11
Region 17 Pacific Northwest	8,390	2,044	691	314	175	137	199	168	70	74
Region 18 California	13,972	4,180	1,955	1,374	379	391	596	494	143	285
Region 19 Alaska	91	20	1	2	-	-	-	-	-	-
Region 20 Hawaii	107	13	8	-	-	-	-	1	-	-

Table 8. **Characteristics of Irrigation Wells Used on Farms: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All wells used		Flowing or artesian wells used		Change in average depth to water [1]					
					Did not change		Increased		Decreased	
	Farms	Number	Farms	Number	Farms	Number of wells	Farms	Number of wells	Farms	Number of wells
United States	121,491	475,796	2,204	3,611	83,328	275,701	14,222	70,889	23,941	129,206
Alabama	567	1,193	12	60	497	1,038	32	38	38	117
Alaska	114	142	2	(D)	112	(D)	2	(D)	-	-
Arizona	1,956	4,942	89	176	1,245	2,450	159	1,040	552	1,452
Arkansas	3,715	48,310	25	319	2,465	30,860	392	5,966	858	11,484
California	23,602	59,499	37	55	12,247	25,318	3,965	15,405	7,390	18,776
Colorado	2,674	10,105	227	279	1,294	3,705	903	4,057	477	2,343
Connecticut	459	582	73	73	322	421	-	-	137	161
Delaware	344	1,564	2	(D)	292	1,390	38	108	14	66
Florida	7,033	20,783	244	524	6,011	17,770	562	1,555	460	1,458
Georgia	3,034	10,726	48	74	2,164	7,010	525	1,942	345	1,774
Hawaii	129	171	11	11	113	155	2	(D)	14	(D)
Idaho	3,073	9,194	13	53	1,803	5,170	227	824	1,043	3,200
Illinois	1,484	5,252	4	8	1,356	4,461	71	329	57	462
Indiana	1,405	4,133	7	11	1,349	3,956	28	102	28	75
Iowa	744	1,877	9	9	679	1,666	44	153	21	58
Kansas	4,745	23,114	-	-	2,132	7,991	895	5,609	1,718	9,514
Kentucky	249	427	-	-	234	412	13	(D)	2	(D)
Louisiana	1,599	8,553	7	14	1,476	7,928	30	105	93	520
Maine	540	649	25	25	512	602	19	29	9	18
Maryland	600	1,515	1	(D)	483	1,316	49	79	68	120
Massachusetts	691	1,087	74	104	610	989	-	-	81	98
Michigan	2,822	7,554	39	43	2,659	7,108	63	157	100	289
Minnesota	1,890	5,385	15	56	1,765	5,011	76	271	49	103
Mississippi	1,451	14,670	8	10	1,260	12,488	66	883	125	1,299
Missouri	1,798	13,621	10	12	1,569	11,440	120	1,105	109	1,076
Montana	1,056	1,653	16	24	1,042	1,626	5	10	9	17
Nebraska	14,897	77,155	55	55	10,128	48,424	2,012	10,710	2,757	18,021
Nevada	830	2,593	34	60	345	1,079	196	615	289	899
New Hampshire	341	456	47	48	297	390	3	3	41	63
New Jersey	961	2,020	46	66	654	1,453	69	122	238	445
New Mexico	4,027	8,759	55	69	2,092	3,531	724	1,813	1,211	3,415
New York	1,085	1,606	85	103	988	1,476	22	42	75	88
North Carolina	1,290	2,314	16	18	1,190	2,082	51	119	49	113
North Dakota	326	1,483	2	(D)	275	1,280	31	120	20	83
Ohio	725	1,064	6	7	686	1,016	24	29	15	19
Oklahoma	1,293	4,912	3	3	812	2,816	143	576	338	1,520
Oregon	4,804	8,779	172	178	4,434	8,099	201	297	169	383
Pennsylvania	2,140	2,908	86	122	2,016	2,742	77	83	47	83
Rhode Island	167	267	15	19	156	256	11	11	-	-
South Carolina	759	1,818	9	9	633	1,545	81	161	45	112
South Dakota	768	2,161	12	28	656	1,833	75	197	37	131
Tennessee	566	1,472	26	26	520	1,377	21	52	25	43
Texas	9,542	81,511	194	246	4,422	20,041	1,491	14,522	3,629	46,948
Utah	1,433	3,055	123	308	776	1,386	199	745	458	924
Vermont	276	309	41	41	207	240	38	38	31	31
Virginia	834	1,185	113	113	787	1,110	35	35	12	40
Washington	4,196	6,801	23	30	3,478	5,461	205	444	513	896
West Virginia	119	150	-	-	113	141	2	(D)	4	(D)
Wisconsin	1,851	5,169	24	27	1,710	4,845	70	165	71	159
Wyoming	487	1,148	19	81	262	(D)	155	(D)	70	287
Water Resources Regions										
Region 01 New England	2,324	3,170	250	285	1,957	2,721	48	58	319	391
Region 02 Mid-Atlantic	5,215	9,842	253	297	4,591	8,670	245	418	379	754
Region 03 South Atlantic-Gulf	12,862	37,228	323	679	10,677	29,848	1,251	3,809	934	3,571
Region 04 Great Lakes	4,506	10,787	136	150	4,215	10,136	149	295	142	356
Region 05 Ohio	2,076	4,456	32	66	1,931	4,136	66	149	79	171
Region 06 Tennessee	472	714	30	(D)	429	655	26	(D)	17	(D)
Region 07 Upper Mississippi	5,287	15,746	38	82	4,916	14,406	210	681	161	659
Region 08 Lower Mississippi	6,869	74,385	46	351	5,394	55,767	440	6,626	1,035	11,992
Region 09 Souris-Red-Rainy	349	1,459	-	-	272	1,149	35	210	42	100
Region 10 Missouri	20,893	97,219	110	190	14,174	60,173	2,931	14,774	3,788	22,272
Region 11 Arkansas-White-Red	7,528	48,391	5	7	3,584	17,708	1,495	10,719	2,449	19,964
Region 12 Texas-Gulf	7,508	65,870	238	290	3,465	15,467	1,144	10,810	2,899	39,593
Region 13 Rio Grande	4,620	9,999	220	284	2,488	4,643	890	2,606	1,242	2,750
Region 14 Upper Colorado	622	1,096	34	(D)	286	(D)	143	(D)	193	226
Region 15 Lower Colorado	2,204	5,335	65	128	1,615	2,954	159	1,040	430	1,341
Region 16 Great Basin	1,882	4,982	157	368	700	1,855	418	1,364	764	1,763
Region 17 Pacific Northwest	12,262	24,953	215	274	10,011	19,121	595	1,426	1,656	4,406
Region 18 California	23,769	59,851	39	59	12,398	25,577	3,973	15,418	7,398	18,856
Region 19 Alaska	114	142	2	(D)	112	(D)	2	(D)	-	-
Region 20 Hawaii	129	171	11	11	113	155	2	(D)	14	(D)

See footnote(s) at end of table.

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Table 8. **Characteristics of Irrigation Wells Used on Farms: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All pumped wells [2]								
	Farms	Number	Average well depth (feet)	Average depth to water [3] (feet)	Average depth to bowls [4] (feet)	Average pumping capacity (gpm)	Average operating pressure (psi)	Average engine size (hp)	Average hours of operation (hours)
United States	119,931	472,185	229	90	145	722	37	87	940
Alabama	564	1,133	177	61	105	302	49	50	311
Alaska	114	(D)	80	33	49	92	46	32	149
Arizona	1,908	4,766	392	146	237	732	35	118	1,423
Arkansas	3,715	47,991	128	50	83	1,362	27	73	507
California	23,594	59,444	354	114	197	680	38	96	1,191
Colorado	2,485	9,826	189	83	130	775	41	78	1,152
Connecticut	386	509	212	72	125	114	55	56	364
Delaware	342	(D)	99	27	62	633	44	63	300
Florida	6,800	20,259	324	84	140	679	41	124	352
Georgia	2,991	10,652	381	131	199	554	48	112	526
Hawaii	118	160	435	160	253	1,567	55	290	866
Idaho	3,073	9,141	297	149	201	1,241	62	181	1,208
Illinois	1,482	5,244	117	38	69	772	42	71	455
Indiana	1,403	4,122	95	31	58	596	46	57	369
Iowa	735	1,868	109	29	61	642	41	48	350
Kansas	4,745	23,114	219	103	164	605	30	129	1,397
Kentucky	249	427	112	43	76	473	47	58	220
Louisiana	1,599	8,539	128	54	84	1,560	21	80	427
Maine	524	624	215	66	120	266	52	51	273
Maryland	600	(D)	138	44	83	327	42	50	371
Massachusetts	633	983	147	54	90	131	48	65	340
Michigan	2,802	7,511	105	39	67	378	58	44	361
Minnesota	1,885	5,329	131	45	82	570	46	58	429
Mississippi	1,445	14,660	121	48	76	1,760	25	65	363
Missouri	1,798	13,609	121	30	65	1,343	29	69	389
Montana	1,051	1,629	137	43	88	254	62	53	419
Nebraska	14,897	77,100	194	68	121	763	40	93	681
Nevada	812	2,533	367	104	193	1,145	41	143	1,975
New Hampshire	322	408	259	85	158	76	48	52	180
New Jersey	923	1,954	151	50	85	292	59	60	307
New Mexico	3,977	8,690	250	106	165	544	45	94	1,109
New York	1,006	1,503	131	49	87	213	58	57	315
North Carolina	1,281	2,296	201	69	122	100	56	33	338
North Dakota	326	(D)	84	29	56	609	41	46	579
Ohio	725	1,057	110	39	70	131	48	38	308
Oklahoma	1,293	4,909	219	84	160	408	33	112	1,209
Oregon	4,744	8,601	202	71	119	380	63	56	732
Pennsylvania	2,071	2,786	240	86	147	42	51	40	297
Rhode Island	167	248	114	42	64	44	42	53	270
South Carolina	750	1,809	281	71	162	296	49	60	453
South Dakota	759	2,133	106	38	69	686	43	62	488
Tennessee	552	1,446	190	63	107	581	39	69	325
Texas	9,369	81,265	276	146	213	208	27	71	1,803
Utah	1,313	2,747	296	94	156	1,251	35	129	1,385
Vermont	235	268	238	73	138	69	43	83	197
Virginia	766	1,072	278	97	171	56	52	52	481
Washington	4,176	6,771	291	110	175	483	64	110	1,117
West Virginia	119	150	220	83	141	41	51	36	193
Wisconsin	1,837	5,142	149	49	89	634	56	69	423
Wyoming	470	1,067	268	94	167	839	42	100	1,043
Water Resources Regions									
Region 01 New England	2,142	2,885	190	64	112	154	50	58	298
Region 02 Mid-Atlantic	5,039	9,545	179	61	109	259	51	54	327
Region 03 South Atlantic-Gulf	12,565	36,549	325	95	156	570	45	108	407
Region 04 Great Lakes	4,399	10,637	114	41	72	389	57	47	365
Region 05 Ohio	2,053	4,390	103	36	67	481	46	52	314
Region 06 Tennessee	456	(D)	207	71	133	151	49	39	263
Region 07 Upper Mississippi	5,265	15,664	130	43	78	652	47	67	434
Region 08 Lower Mississippi	6,863	74,034	125	48	79	1,486	26	72	450
Region 09 Souris-Red-Rainy	349	1,459	90	29	58	586	40	43	523
Region 10 Missouri	20,859	97,029	189	69	120	741	40	93	737
Region 11 Arkansas-White-Red	7,528	48,384	262	136	205	637	28	111	1,452
Region 12 Texas-Gulf	7,291	65,580	247	126	187	174	28	60	1,771
Region 13 Rio Grande	4,431	9,715	238	77	140	663	42	82	873
Region 14 Upper Colorado	592	(D)	276	98	159	1,028	48	166	1,027
Region 15 Lower Colorado	2,180	5,207	385	143	233	788	34	117	1,351
Region 16 Great Basin	1,744	4,614	332	96	171	1,143	41	135	1,710
Region 17 Pacific Northwest	12,184	24,679	257	110	163	705	63	115	993
Region 18 California	23,759	59,792	354	114	197	683	38	97	1,195
Region 19 Alaska	114	(D)	80	33	49	92	46	32	149
Region 20 Hawaii	118	160	435	160	253	1,567	55	290	866

See footnote(s) at end of table.

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Table 8. **Characteristics of Irrigation Wells Used on Farms: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Average well depth [2]				Number of wells with an average well depth of -					
	For all pumped wells (feet)	For farms with one well (feet)	For farms with two wells (feet)	For farms with three wells (feet)	Under 50 feet	50 to 99 feet	100 to 199 feet	200 to 299 feet	300 to 499 feet	500 feet or more
United States	229	233	226	231	23,094	68,454	181,142	85,320	74,571	39,604
Alabama	177	156	257	133	3	204	598	224	61	43
Alaska	80	88	60	(D)	62	32	36	8	(D)	-
Arizona	392	257	369	436	134	985	762	372	814	1,699
Arkansas	128	170	114	118	213	8,409	37,141	1,363	508	357
California	354	313	277	293	505	6,077	10,805	15,071	12,937	14,049
Colorado	189	172	144	205	730	2,223	2,636	2,289	1,771	177
Connecticut	212	246	204	119	75	16	159	121	125	13
Delaware	99	151	102	96	21	914	573	29	21	-
Florida	324	217	253	261	4,005	1,346	5,143	2,867	2,251	4,647
Georgia	381	373	426	412	64	215	1,684	2,411	3,007	3,271
Hawaii	435	424	318	737	-	7	24	21	48	60
Idaho	297	241	249	343	118	452	2,464	2,698	2,358	1,051
Illinois	117	171	118	143	113	2,304	2,289	315	185	38
Indiana	95	129	101	99	674	1,950	1,296	161	29	12
Iowa	109	160	119	88	279	582	829	70	103	(D)
Kansas	219	130	146	213	1,356	4,894	6,372	4,200	4,773	1,519
Kentucky	112	132	106	(D)	55	212	90	61	9	-
Louisiana	128	150	147	156	214	2,565	4,418	1,161	181	-
Maine	215	231	146	297	80	47	257	70	126	44
Maryland	138	202	135	136	116	675	311	285	104	22
Massachusetts	147	167	209	80	378	184	240	60	52	69
Michigan	105	120	112	127	1,712	2,400	2,603	573	219	(D)
Minnesota	131	157	142	123	655	1,863	1,881	434	489	7
Mississippi	121	214	149	126	25	1,722	12,451	302	77	83
Missouri	121	295	219	156	248	4,657	7,764	376	306	258
Montana	137	176	94	58	636	295	260	221	205	12
Nebraska	194	159	155	201	3,209	7,401	34,841	22,399	8,004	1,246
Nevada	367	269	274	327	-	158	321	414	951	689
New Hampshire	259	267	246	-	80	(D)	143	60	76	48
New Jersey	151	165	125	147	29	549	975	258	95	48
New Mexico	250	187	192	318	413	1,243	2,541	1,874	1,533	1,086
New York	131	127	132	176	279	454	439	182	143	6
North Carolina	201	227	175	232	199	151	814	655	433	44
North Dakota	84	125	120	81	414	574	447	36	(D)	-
Ohio	110	115	99	135	149	332	477	57	42	-
Oklahoma	219	191	187	181	396	1,640	719	683	1,003	468
Oregon	202	178	244	178	2,229	1,565	1,497	1,167	1,523	620
Pennsylvania	240	234	249	284	106	277	706	827	646	224
Rhode Island	114	82	111	217	115	(D)	46	74	9	-
South Carolina	281	210	210	425	72	110	472	321	576	258
South Dakota	106	118	118	95	354	619	1,007	139	14	-
Tennessee	190	185	245	207	8	106	705	406	194	27
Texas	276	396	398	259	812	4,675	27,377	17,203	25,564	5,634
Utah	296	291	265	361	127	143	856	395	887	339
Vermont	238	227	313	207	8	23	81	40	110	6
Virginia	278	282	241	308	67	134	206	210	319	136
Washington	291	197	291	246	1,244	980	1,396	1,150	893	1,108
West Virginia	220	201	129	409	9	27	40	24	47	3
Wisconsin	149	162	167	172	295	1,897	1,723	673	495	59
Wyoming	268	303	312	256	9	161	227	310	245	115
Water Resources Regions										
Region 01 New England	190	213	193	150	736	260	872	385	458	174
Region 02 Mid-Atlantic	179	217	185	197	460	2,709	2,975	1,741	1,271	389
Region 03 South Atlantic-Gulf	325	248	274	302	4,356	2,076	8,854	6,601	6,374	8,288
Region 04 Great Lakes	114	131	124	129	2,014	3,463	3,810	873	454	23
Region 05 Ohio	103	123	120	121	379	2,394	1,223	273	91	30
Region 06 Tennessee	207	197	273	(D)	18	71	280	178	102	35
Region 07 Upper Mississippi	130	166	135	134	1,610	5,598	5,849	1,365	1,111	131
Region 08 Lower Mississippi	125	151	141	133	600	14,324	54,904	2,956	802	448
Region 09 Souris-Red-Rainy	90	134	131	86	275	728	414	30	12	-
Region 10 Missouri	189	163	156	185	5,514	12,669	39,639	26,993	10,756	1,458
Region 11 Arkansas-White-Red	262	213	187	234	1,218	7,229	13,743	6,203	14,828	5,163
Region 12 Texas-Gulf	247	405	432	241	798	4,043	27,364	14,408	16,347	2,620
Region 13 Rio Grande	238	215	199	279	413	2,141	2,805	1,910	1,376	1,070
Region 14 Upper Colorado	276	284	223	493	238	73	237	162	(D)	257
Region 15 Lower Colorado	385	269	338	426	20	1,045	1,113	364	894	1,771
Region 16 Great Basin	332	235	280	358	11	326	892	788	1,732	865
Region 17 Pacific Northwest	257	194	245	236	3,851	3,170	5,265	4,917	4,782	2,694
Region 18 California	354	313	277	293	521	6,096	10,843	15,144	13,060	14,128
Region 19 Alaska	80	88	60	(D)	62	32	36	8	(D)	-
Region 20 Hawaii	435	424	318	737	-	7	24	21	48	60

See footnote(s) at end of table.

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Table 8. **Characteristics of Irrigation Wells Used on Farms: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Average depth to water [3]				Number of wells with an average depth to water of -					
	For all pumped wells (feet)	For farms with one well (feet)	For farms with two wells (feet)	For farms with three wells (feet)	Under 50 feet	50 to 99 feet	100 to 199 feet	200 to 299 feet	300 to 499 feet	500 feet or more
United States	90	82	81	77	189,496	133,869	100,481	28,989	18,030	1,320
Alabama	61	60	84	59	554	427	139	12	(D)	-
Alaska	33	36	27	(D)	107	33	-	-	-	-
Arizona	146	105	151	122	1,299	828	1,299	664	632	44
Arkansas	50	62	45	51	27,261	17,334	3,051	345	-	-
California	114	106	91	85	16,694	15,939	17,679	4,745	4,055	332
Colorado	83	42	66	100	4,336	2,157	2,317	869	145	(D)
Connecticut	72	86	64	44	207	185	97	13	7	-
Delaware	27	41	29	22	1,427	91	40	-	-	-
Florida	84	64	70	73	10,634	4,715	2,323	1,384	1,046	157
Georgia	131	138	151	142	1,495	2,952	4,112	1,630	455	8
Hawaii	160	152	114	265	20	19	67	54	-	-
Idaho	149	127	138	150	1,561	2,739	2,485	1,215	1,007	134
Illinois	38	66	47	38	3,993	947	283	10	(D)	(D)
Indiana	31	47	37	33	3,506	544	48	(D)	14	-
Iowa	29	54	37	20	1,608	157	93	(D)	-	-
Kansas	103	64	62	98	8,652	4,534	6,852	2,449	627	-
Kentucky	43	52	47	(D)	278	130	(D)	(D)	(D)	-
Louisiana	54	57	60	68	5,171	2,391	935	42	-	-
Maine	66	67	51	120	283	206	99	36	-	-
Maryland	44	76	47	32	1,089	297	104	23	-	-
Massachusetts	54	58	85	25	672	169	105	-	37	-
Michigan	39	50	53	42	5,511	1,534	378	42	46	-
Minnesota	45	56	48	40	3,633	1,080	595	21	-	-
Mississippi	48	82	54	53	9,671	4,812	113	58	6	-
Missouri	30	93	80	35	12,263	795	413	103	35	-
Montana	43	53	27	18	1,083	331	189	26	-	-
Nebraska	68	47	68	71	26,798	34,889	14,791	482	140	-
Nevada	104	66	69	99	766	414	1,254	89	10	-
New Hampshire	85	97	65	-	144	130	104	21	9	-
New Jersey	50	60	45	53	1,269	500	132	45	8	-
New Mexico	106	73	65	118	2,671	2,439	2,437	495	648	-
New York	49	47	50	47	923	435	127	12	6	-
North Carolina	69	83	55	93	1,064	781	366	65	13	7
North Dakota	29	40	50	27	1,158	300	(D)	-	-	-
Ohio	39	42	37	48	776	236	45	-	-	-
Oklahoma	84	79	88	76	2,355	841	993	674	46	-
Oregon	71	70	100	55	5,145	1,479	1,164	588	204	21
Pennsylvania	86	89	83	91	995	881	686	193	31	-
Rhode Island	42	31	41	78	165	74	9	-	-	-
South Carolina	71	71	71	54	789	578	394	42	6	-
South Dakota	38	46	40	39	1,616	434	72	11	-	-
Tennessee	63	68	95	69	695	534	188	19	10	-
Texas	146	125	133	92	11,366	18,515	31,285	11,503	8,214	382
Utah	94	112	70	82	706	1,055	743	187	56	-
Vermont	73	68	98	74	114	59	95	-	-	-
Virginia	97	106	68	106	410	306	195	69	92	-
Washington	110	79	84	107	2,874	1,926	716	646	384	225
West Virginia	83	71	71	149	43	50	57	-	-	-
Wisconsin	49	60	48	53	3,376	1,287	408	49	20	(D)
Wyoming	94	104	122	140	270	380	370	34	13	-
Water Resources Regions										
Region 01 New England	64	70	66	56	1,520	771	471	70	53	-
Region 02 Mid-Atlantic	61	81	63	61	5,556	2,327	1,219	306	137	-
Region 03 South Atlantic-Gulf	95	82	85	87	14,695	9,647	7,355	3,153	1,527	172
Region 04 Great Lakes	41	51	54	41	7,648	2,237	642	52	58	-
Region 05 Ohio	36	44	46	41	3,376	850	140	22	(D)	-
Region 06 Tennessee	71	64	102	(D)	272	292	94	16	10	-
Region 07 Upper Mississippi	43	61	48	41	11,242	3,065	1,224	100	25	(D)
Region 08 Lower Mississippi	48	56	56	55	46,386	23,136	4,147	363	(D)	-
Region 09 Souris-Red-Rainy	29	46	51	29	1,199	168	92	-	-	-
Region 10 Missouri	69	51	65	66	36,607	39,376	19,540	1,319	187	-
Region 11 Arkansas-White-Red	136	92	80	115	16,216	6,842	11,059	8,497	5,768	(D)
Region 12 Texas-Gulf	126	131	139	63	10,545	17,726	26,983	6,213	3,771	342
Region 13 Rio Grande	77	68	66	92	4,439	2,710	1,733	651	142	40
Region 14 Upper Colorado	98	109	64	178	445	138	309	146	-	-
Region 15 Lower Colorado	143	110	132	129	1,363	1,073	1,335	703	689	44
Region 16 Great Basin	96	72	74	87	1,249	1,319	1,884	153	(D)	-
Region 17 Pacific Northwest	110	83	105	98	9,877	6,052	4,365	2,416	1,589	380
Region 18 California	114	106	90	85	16,734	16,088	17,822	4,755	4,061	332
Region 19 Alaska	33	36	27	(D)	107	33	-	-	-	-
Region 20 Hawaii	160	152	114	265	20	19	67	54	-	-

See footnote(s) at end of table.

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Table 8. **Characteristics of Irrigation Wells Used on Farms: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Average depth to bowls [4]				Number of wells with an average depth to bowls of -					
	For all pumped wells (feet)	For farms with one well (feet)	For farms with two wells (feet)	For farms with three wells (feet)	Under 50 feet	50 to 99 feet	100 to 199 feet	200 to 299 feet	300 to 499 feet	500 feet or more
United States	145	136	134	134	66,518	147,505	153,024	56,317	39,500	9,321
Alabama	105	99	140	89	131	464	455	44	38	(D)
Alaska	49	51	44	(D)	93	29	18	-	-	-
Arizona	237	164	243	252	361	1,365	661	732	1,135	512
Arkansas	83	96	80	81	3,724	33,957	9,784	188	268	70
California	197	174	154	152	4,847	10,874	22,858	10,918	6,506	3,441
Colorado	130	81	111	152	1,889	2,836	2,953	1,643	472	33
Connecticut	125	149	108	73	83	147	208	44	20	7
Delaware	62	80	63	49	492	922	143	(D)	-	-
Florida	140	103	114	127	5,552	5,000	6,153	870	1,603	1,081
Georgia	199	211	232	209	210	1,590	4,543	2,356	1,812	141
Hawaii	253	244	175	407	3	17	37	43	60	-
Idaho	201	169	180	232	357	1,902	3,413	1,458	1,621	390
Illinois	69	106	76	75	1,782	2,765	537	133	21	6
Indiana	58	76	64	60	2,010	1,800	286	(D)	(D)	12
Iowa	61	91	74	52	911	710	175	62	9	(D)
Kansas	164	96	105	153	3,651	5,292	6,470	4,365	3,012	324
Kentucky	76	87	77	(D)	138	157	124	(D)	(D)	-
Louisiana	84	90	90	106	1,447	4,717	2,249	126	-	-
Maine	120	126	84	189	104	212	198	60	50	-
Maryland	83	121	73	92	609	451	351	77	25	-
Massachusetts	90	102	129	54	482	168	242	44	17	30
Michigan	67	79	79	74	3,403	2,434	1,478	115	81	-
Minnesota	82	95	79	71	1,743	2,045	1,326	155	60	-
Mississippi	76	122	90	83	772	11,675	2,117	17	73	6
Missouri	65	151	127	70	4,843	7,669	629	260	177	31
Montana	88	122	52	34	848	161	413	102	105	-
Nebraska	121	96	100	124	8,770	22,861	35,218	9,887	224	140
Nevada	193	139	142	171	173	289	840	957	274	-
New Hampshire	158	155	163	-	81	110	146	(D)	7	28
New Jersey	85	95	75	82	672	731	384	97	64	6
New Mexico	165	117	115	192	1,210	1,904	3,082	984	1,382	128
New York	87	79	89	116	613	398	393	60	33	6
North Carolina	122	138	98	168	317	704	999	199	64	13
North Dakota	56	83	84	54	795	516	155	13	-	-
Ohio	70	74	67	94	393	445	190	23	(D)	-
Oklahoma	160	149	145	136	1,081	1,285	869	705	930	39
Oregon	119	109	169	96	3,534	1,303	2,018	887	723	136
Pennsylvania	147	145	145	173	296	656	1,215	403	195	21
Rhode Island	64	46	62	119	119	46	81	(D)	-	-
South Carolina	162	112	114	311	151	476	669	295	212	6
South Dakota	69	72	75	70	750	925	425	22	11	-
Tennessee	107	117	148	108	143	605	587	68	43	-
Texas	213	212	229	149	2,879	10,306	33,217	15,796	17,096	1,971
Utah	156	172	137	145	330	714	835	668	149	51
Vermont	138	130	192	114	39	47	131	43	8	-
Virginia	171	182	132	157	166	186	367	176	145	32
Washington	175	124	170	160	1,741	1,567	1,626	568	638	631
West Virginia	141	134	88	235	31	23	62	28	6	-
Wisconsin	89	98	101	98	1,638	1,808	1,381	241	47	27
Wyoming	167	196	203	222	111	241	313	330	72	-
Water Resources Regions										
Region 01 New England	112	123	118	94	893	691	947	189	100	65
Region 02 Mid-Atlantic	109	133	110	120	2,478	3,155	2,650	771	426	65
Region 03 South Atlantic-Gulf	156	130	137	162	6,411	8,401	12,981	3,772	3,742	1,242
Region 04 Great Lakes	72	83	83	72	4,444	3,627	2,197	274	83	12
Region 05 Ohio	67	79	82	78	1,969	1,767	524	92	38	-
Region 06 Tennessee	133	134	168	(D)	76	201	279	82	40	6
Region 07 Upper Mississippi	78	100	82	76	5,427	6,517	3,020	519	148	33
Region 08 Lower Mississippi	79	88	86	87	9,330	50,294	13,701	312	327	70
Region 09 Souris-Red-Rainy	58	85	83	55	759	539	154	7	-	-
Region 10 Missouri	120	99	102	115	14,320	27,351	41,307	13,074	822	155
Region 11 Arkansas-White-Red	205	149	127	177	4,493	13,674	7,400	9,661	11,346	1,810
Region 12 Texas-Gulf	187	221	250	114	2,222	9,803	32,629	10,481	9,834	611
Region 13 Rio Grande	140	117	117	164	1,766	3,063	2,780	799	1,216	91
Region 14 Upper Colorado	159	169	126	273	311	124	256	106	241	-
Region 15 Lower Colorado	233	172	217	252	247	1,788	669	742	1,198	563
Region 16 Great Basin	171	129	146	157	412	773	1,623	1,475	331	-
Region 17 Pacific Northwest	163	126	166	152	5,995	4,769	6,863	2,868	3,027	1,157
Region 18 California	197	174	154	152	4,869	10,922	22,989	11,050	6,521	3,441
Region 19 Alaska	49	51	44	(D)	93	29	18	-	-	-
Region 20 Hawaii	253	244	175	407	3	17	37	43	60	-

[1] Increases and decreases in depth are reported over a five year period.
[2] Data do not include flowing or artesian wells.
[3] Depth at the start of the irrigation season.
[4] Depth to bowls or impellers.

Table 9. **Irrigation Pumps on Farms: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Total pumps	Farms with -									
			1 pump	2 pumps	3 pumps	4 pumps	5 pumps	6 or 7 pumps	8 or 9 pumps	10 to 19 pumps	20 to 29 pumps	30 pumps or more
United States	155,675	605,610	72,884	31,084	13,363	8,800	5,396	6,153	4,284	8,605	2,712	2,394
Alabama	845	1,954	418	215	76	54	22	31	9	16	4	-
Alaska	146	211	110	25	5	2	-	4	-	-	-	-
Arizona	2,153	5,960	1,088	684	122	48	25	23	55	80	17	11
Arkansas	4,070	54,233	772	390	186	229	151	227	242	876	459	538
California	26,698	83,440	12,541	6,544	2,336	1,929	615	678	577	943	293	242
Colorado	4,231	14,062	2,002	823	420	214	143	267	114	157	46	45
Connecticut	552	824	389	107	32	13	2	8	-	1	-	-
Delaware	366	1,681	112	71	39	38	23	29	12	31	6	5
Florida	7,675	23,743	3,827	1,794	782	427	226	214	86	162	65	92
Georgia	3,393	14,403	1,173	580	366	340	215	256	127	256	59	21
Hawaii	313	516	222	45	32	10	1	1	-	1	-	1
Idaho	7,350	24,169	3,437	1,886	433	431	240	287	191	310	76	59
Illinois	1,665	5,621	778	357	141	76	55	84	42	108	15	9
Indiana	1,682	4,875	788	320	190	121	71	77	30	67	17	1
Iowa	874	2,104	527	138	67	45	28	32	7	25	2	3
Kansas	5,000	24,137	1,020	1,169	637	643	324	309	341	434	68	55
Kentucky	587	973	385	139	36	1	9	11	-	6	-	-
Louisiana	1,890	10,405	464	341	187	168	152	175	96	225	48	34
Maine	697	951	552	110	19	3	3	6	2	1	1	-
Maryland	796	2,081	370	180	99	37	32	34	16	26	1	1
Massachusetts	1,196	2,780	629	279	152	36	16	31	18	25	9	1
Michigan	3,380	9,964	1,829	546	357	164	90	116	112	109	42	15
Minnesota	2,037	5,782	1,118	347	210	96	67	71	49	51	10	18
Mississippi	1,698	15,877	376	226	131	137	87	131	110	270	95	135
Missouri	2,256	14,480	916	355	206	60	62	113	75	241	133	95
Montana	3,427	8,031	2,036	450	390	200	146	76	30	69	25	5
Nebraska	15,334	83,018	4,252	2,556	1,830	1,268	1,139	1,034	815	1,772	411	257
Nevada	896	2,990	315	290	85	46	38	29	25	54	11	3
New Hampshire	404	660	263	93	22	9	8	8	-	1	-	-
New Jersey	1,071	2,771	578	181	125	38	39	56	16	31	4	3
New Mexico	4,582	10,481	3,292	577	186	111	47	112	56	147	35	19
New York	1,468	2,483	933	291	144	49	24	18	5	2	2	-
North Carolina	2,040	4,410	1,015	589	203	76	47	47	32	22	8	1
North Dakota	448	1,884	139	109	61	26	25	33	21	20	9	5
Ohio	1,075	1,963	720	218	49	34	15	22	5	10	1	1
Oklahoma	1,469	5,351	678	301	123	92	43	77	47	71	26	11
Oregon	8,341	20,154	4,422	2,158	590	226	362	141	85	302	40	15
Pennsylvania	2,579	3,892	1,768	520	181	54	38	11	4	3	-	-
Rhode Island	221	343	131	66	16	8	-	-	-	-	-	-
South Carolina	910	2,388	374	260	111	38	41	45	14	22	5	-
South Dakota	962	2,733	439	183	128	55	35	68	20	30	2	2
Tennessee	786	2,034	387	184	62	55	25	29	13	26	4	1
Texas	10,603	85,822	3,865	1,419	637	585	432	705	551	1,194	588	627
Utah	3,248	5,932	2,306	445	211	83	44	77	48	28	3	3
Vermont	392	591	275	57	39	20	1	-	-	-	-	-
Virginia	1,083	1,943	652	302	41	34	15	14	7	18	-	-
Washington	7,737	17,914	5,173	1,168	575	166	73	196	110	192	47	37
West Virginia	187	256	138	36	6	7	-	-	-	-	-	-
Wisconsin	2,222	6,731	1,231	456	162	89	56	82	33	74	18	21
Wyoming	2,640	5,609	1,659	504	125	109	44	58	36	96	7	2
Water Resources Regions												
Region 01 New England	3,212	5,755	2,078	666	249	77	30	53	20	28	10	1
Region 02 Mid-Atlantic	6,262	13,222	3,630	1,329	556	248	156	159	56	106	13	9
Region 03 South Atlantic-Gulf	15,120	47,430	6,941	3,495	1,540	983	578	584	267	477	141	114
Region 04 Great Lakes	5,645	14,658	3,162	1,054	542	262	144	145	130	137	50	19
Region 05 Ohio	3,027	6,305	1,852	655	189	101	64	69	16	71	3	7
Region 06 Tennessee	804	1,494	500	167	63	16	16	21	10	11	-	-
Region 07 Upper Mississippi	6,108	18,299	3,287	1,133	522	266	172	273	123	244	50	38
Region 08 Lower Mississippi	7,327	81,805	1,193	820	574	498	403	586	460	1,441	642	710
Region 09 Souris-Red-Rainy	433	1,710	180	73	54	19	28	29	23	18	4	5
Region 10 Missouri	26,130	115,465	9,153	4,789	2,979	1,925	1,603	1,583	1,126	2,190	491	291
Region 11 Arkansas-White-Red	8,257	51,546	2,223	1,729	849	643	400	557	496	766	330	264
Region 12 Texas-Gulf	8,507	69,519	3,287	1,078	476	453	327	495	398	1,017	450	526
Region 13 Rio Grande	4,928	11,269	3,615	600	193	125	46	91	63	122	36	37
Region 14 Upper Colorado	2,255	4,507	1,658	195	90	127	11	76	29	64	3	2
Region 15 Lower Colorado	2,494	6,470	1,303	786	139	51	25	27	55	80	17	11
Region 16 Great Basin	3,237	7,651	1,883	637	297	95	71	89	46	101	12	6
Region 17 Pacific Northwest	24,451	63,433	13,886	5,210	1,645	957	698	622	385	779	161	108
Region 18 California	27,019	84,345	12,721	6,598	2,369	1,942	623	689	581	952	299	245
Region 19 Alaska	146	211	110	25	5	2	-	4	-	-	-	-
Region 20 Hawaii	313	516	222	45	32	10	1	1	-	1	-	1

Table 10. **Irrigation Pumps on Farms for Wells: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Pumps	Average pumping capacity (see text) for -				Well pumps with average pumping capacity of -						
			All pumped wells (gpm)	Farms with one well (gpm)	Farms with two wells (gpm)	Farms with three wells (gpm)	Less than 500 gpm	500 to 749 gpm	750 to 999 gpm	1,000 to 1,499 gpm	1,500 to 1,999 gpm	2,000 or more gpm	
												Well pumps	Average gpm
United States	119,931	472,185	722	365	529	605	189,258	76,750	84,120	66,617	29,812	25,628	2,406
Alabama	564	1,133	302	136	179	467	851	94	138	(D)	(D)	-	-
Alaska	114	(D)	92	113	20	(D)	133	(D)	(D)	-	-	-	-
Arizona	1,908	4,766	732	316	488	863	2,173	720	377	624	616	256	2,608
Arkansas	3,715	47,991	1,362	709	972	1,079	1,812	4,838	6,229	16,703	10,735	7,674	2,321
California	23,594	59,444	680	300	514	377	27,268	6,394	9,594	10,043	4,537	1,608	2,535
Colorado	2,485	9,826	775	567	523	1,031	2,517	1,880	2,774	1,967	491	197	2,598
Connecticut	386	509	114	44	180	288	442	67	-	-	-	-	-
Delaware	342	(D)	633	371	472	590	372	595	526	(D)	-	-	-
Florida	6,800	20,259	679	276	367	473	9,329	2,699	2,164	4,222	712	1,133	2,516
Georgia	2,991	10,652	554	251	361	616	5,184	1,718	2,222	1,445	75	8	2,500
Hawaii	118	160	1,567	1,054	1,508	906	44	(D)	(D)	-	-	(D)	3,318
Idaho	3,073	9,141	1,241	1,312	924	1,337	963	993	1,536	3,021	1,225	1,403	2,573
Illinois	1,482	5,244	772	455	751	862	851	1,229	1,997	1,055	63	49	2,645
Indiana	1,403	4,122	596	325	535	516	1,259	1,486	1,026	342	9	-	-
Iowa	735	1,868	642	317	570	739	508	364	686	300	10	-	-
Kansas	4,745	23,114	605	648	497	669	7,412	8,588	5,829	1,264	21	-	-
Kentucky	249	427	473	267	300	648	220	(D)	79	34	22	(D)	(D)
Louisiana	1,599	8,539	1,560	780	1,476	1,438	894	862	957	1,387	1,656	2,783	2,601
Maine	524	624	266	158	405	644	504	(D)	-	81	36	(D)	(D)
Maryland	600	(D)	327	150	271	293	1,090	315	75	(D)	-	-	-
Massachusetts	633	983	131	91	158	139	979	(D)	(D)	-	-	-	-
Michigan	2,802	7,511	378	168	250	483	4,524	1,597	1,043	303	44	-	-
Minnesota	1,885	5,329	570	389	525	432	1,764	2,050	1,293	156	(D)	(D)	(D)
Mississippi	1,445	14,660	1,760	446	999	1,041	652	190	558	1,930	5,360	5,970	2,227
Missouri	1,798	13,609	1,343	330	857	1,362	1,100	621	2,187	4,976	1,928	2,797	2,442
Montana	1,051	1,629	254	144	323	118	1,358	98	37	114	(D)	(D)	2,445
Nebraska	14,897	77,100	763	694	677	797	7,114	26,466	33,438	9,979	103	-	-
Nevada	812	2,533	1,145	583	906	930	484	53	380	937	385	294	2,470
New Hampshire	322	408	76	60	102	-	400	8	-	-	-	-	-
New Jersey	923	1,954	292	162	175	265	1,535	291	117	(D)	(D)	-	-
New Mexico	3,977	8,690	544	359	631	709	4,877	978	1,131	1,207	356	141	2,209
New York	1,006	1,503	213	126	275	223	1,216	165	8	114	-	-	-
North Carolina	1,281	2,296	100	55	40	174	2,194	79	20	3	-	-	-
North Dakota	326	(D)	609	525	771	599	459	409	536	(D)	-	-	-
Ohio	725	1,057	131	77	92	197	954	76	16	11	-	-	-
Oklahoma	1,293	4,909	408	299	393	441	3,173	1,200	356	168	12	-	-
Oregon	4,744	8,601	380	240	302	278	6,294	1,009	467	361	306	164	2,346
Pennsylvania	2,071	2,786	42	33	61	35	2,772	-	(D)	-	(D)	-	-
Rhode Island	167	248	44	37	55	22	248	-	-	-	-	-	-
South Carolina	750	1,809	296	129	191	199	1,210	426	97	(D)	(D)	(D)	(D)
South Dakota	759	2,133	686	642	726	662	345	668	1,034	86	-	-	-
Tennessee	552	1,446	581	240	280	636	685	208	237	200	74	42	2,048
Texas	9,369	81,265	208	245	549	348	72,886	4,983	1,645	1,195	341	215	2,521
Utah	1,313	2,747	1,251	1,930	929	918	361	490	343	860	228	465	2,956
Vermont	235	268	69	83	17	20	253	-	15	-	-	-	-
Virginia	766	1,072	56	39	51	(D)	1,059	-	13	-	-	-	-
Washington	4,176	6,771	483	238	478	457	4,618	649	568	302	378	256	2,684
West Virginia	119	150	41	41	60	18	150	-	-	-	-	-	-
Wisconsin	1,837	5,142	634	301	391	555	1,486	816	2,055	785	-	-	-
Wyoming	470	1,067	839	787	1,853	703	282	300	255	143	3	84	2,922
Water Resources Regions													
Region 01 New England	2,142	2,885	154	117	167	295	2,647	77	(D)	117	36	(D)	(D)
Region 02 Mid-Atlantic	5,039	9,545	259	86	190	213	7,256	1,355	741	178	15	-	-
Region 03 South Atlantic-Gulf	12,565	36,549	570	230	292	453	19,128	5,001	4,691	5,778	808	1,143	2,515
Region 04 Great Lakes	4,399	10,637	389	152	251	447	6,186	2,290	1,581	534	46	-	-
Region 05 Ohio	2,053	4,390	481	163	352	566	2,034	913	902	501	(D)	(D)	(D)
Region 06 Tennessee	456	(D)	151	126	42	(D)	611	(D)	29	(D)	(D)	-	-
Region 07 Upper Mississippi	5,265	15,664	652	383	549	583	4,344	4,225	5,030	1,775	151	139	2,341
Region 08 Lower Mississippi	6,863	74,034	1,486	766	1,312	1,251	2,885	5,509	8,761	21,631	17,254	17,994	2,360
Region 09 Souris-Red-Rainy	349	1,459	586	391	722	505	543	426	436	(D)	(D)	-	-
Region 10 Missouri	20,859	97,029	741	617	660	759	13,218	31,703	39,095	12,641	244	128	2,687
Region 11 Arkansas-White-Red	7,528	48,384	637	518	566	683	21,390	11,232	6,954	4,885	2,766	1,157	2,209
Region 12 Texas-Gulf	7,291	65,580	174	224	503	304	61,452	2,059	836	894	164	175	2,572
Region 13 Rio Grande	4,431	9,715	663	354	645	802	4,467	1,357	1,501	1,431	597	362	2,410
Region 14 Upper Colorado	592	(D)	1,028	1,290	723	900	266	153	335	80	(D)	172	2,924
Region 15 Lower Colorado	2,180	5,207	788	589	515	841	2,166	938	377	737	619	370	2,697
Region 16 Great Basin	1,744	4,614	1,143	1,133	1,002	996	659	417	784	1,641	646	467	2,688
Region 17 Pacific Northwest	12,184	24,679	705	423	524	588	12,511	2,621	2,383	3,558	1,799	1,807	2,562
Region 18 California	23,759	59,792	683	306	518	381	27,318	6,449	9,621	10,166	4,589	1,649	2,535
Region 19 Alaska	114	(D)	92	113	20	(D)	133	(D)	(D)	-	-	-	-
Region 20 Hawaii	118	160	1,567	1,054	1,508	906	44	(D)	(D)	-	-	(D)	3,318

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Table 10. **Irrigation Pumps on Farms for Wells: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Average operating pressure (see text) for -				Well pumps with average operating pressure of -					
									100 or more psi	
	All pumped wells (psi)	Farms with one well (psi)	Farms with two wells (psi)	Farms with three wells (psi)	Under 30 psi	30 to 59 psi	60 to 79 psi	80 to 99 psi	Well pumps	Average psi
United States	37	48	43	41	169,388	237,403	48,691	9,958	6,745	114
Alabama	49	53	50	51	84	741	244	56	8	100
Alaska	46	49	37	(D)	(D)	91	20	(D)	-	-
Arizona	35	43	31	41	2,117	1,921	598	38	92	118
Arkansas	27	51	36	42	32,816	10,264	4,425	402	84	105
California	38	43	42	30	18,474	33,618	5,282	1,135	935	119
Colorado	41	32	39	41	1,579	7,197	433	-	617	100
Connecticut	55	56	48	64	(D)	294	142	51	(D)	110
Delaware	44	42	52	50	59	1,327	119	(D)	38	107
Florida	41	47	43	36	3,773	13,419	1,931	963	173	144
Georgia	48	50	50	49	765	7,512	1,854	349	172	107
Hawaii	55	53	52	(D)	-	102	34	24	-	-
Idaho	62	57	61	64	59	3,200	4,871	917	94	150
Illinois	42	54	44	44	769	3,798	545	46	86	147
Indiana	46	51	48	50	536	2,596	708	192	90	127
Iowa	41	47	46	41	209	1,462	110	47	40	129
Kansas	30	34	30	29	10,652	12,207	83	172	-	-
Kentucky	47	45	49	38	18	312	58	(D)	(D)	(D)
Louisiana	21	45	23	24	6,493	1,490	317	71	168	120
Maine	52	48	57	46	(D)	388	203	-	(D)	112
Maryland	42	48	37	39	257	942	289	(D)	-	-
Massachusetts	48	50	38	64	93	610	194	86	-	-
Michigan	58	56	53	62	409	3,290	2,900	424	488	111
Minnesota	46	51	52	50	540	3,638	808	221	122	112
Mississippi	25	49	45	40	10,894	3,064	667	35	-	-
Missouri	29	49	39	31	7,618	5,386	381	140	84	100
Montana	62	62	64	62	15	502	896	206	10	220
Nebraska	40	38	37	47	11,086	61,115	4,204	584	111	138
Nevada	41	39	39	38	364	1,944	213	12	-	-
New Hampshire	48	49	48	-	8	287	105	8	-	-
New Jersey	59	52	57	58	132	831	686	151	154	116
New Mexico	45	53	53	43	2,059	4,912	1,221	20	478	101
New York	58	51	55	62	36	747	490	119	111	108
North Carolina	56	48	69	46	206	1,396	505	16	173	143
North Dakota	41	45	42	40	(D)	1,268	123	-	-	-
Ohio	48	47	51	53	216	496	251	42	52	123
Oklahoma	33	39	39	32	1,953	2,770	120	(D)	(D)	(D)
Oregon	63	61	57	56	174	3,725	2,173	1,949	580	113
Pennsylvania	51	53	50	50	317	1,220	1,036	192	21	114
Rhode Island	42	34	45	60	48	114	86	-	-	-
South Carolina	49	55	57	46	88	1,227	443	32	19	117
South Dakota	43	43	50	48	178	1,715	195	31	14	116
Tennessee	39	41	44	39	303	972	159	(D)	(D)	(D)
Texas	27	50	32	27	52,244	25,063	3,292	(D)	(D)	100
Utah	35	24	35	43	827	1,638	264	18	-	-
Vermont	43	44	34	43	62	152	54	-	-	-
Virginia	52	54	54	56	60	656	248	96	12	143
Washington	64	64	50	66	81	2,475	3,201	303	711	117
West Virginia	51	51	76	22	47	33	53	-	17	126
Wisconsin	56	55	58	52	200	2,771	1,425	516	230	116
Wyoming	42	58	28	46	343	505	32	133	54	126
Water Resources Regions										
Region 01 New England	50	49	45	60	200	1,716	789	145	35	112
Region 02 Mid-Atlantic	51	52	52	51	868	5,158	2,623	558	338	113
Region 03 South Atlantic-Gulf	45	48	49	41	4,978	24,476	5,116	1,448	531	130
Region 04 Great Lakes	57	53	52	62	618	5,032	3,687	708	592	114
Region 05 Ohio	46	49	49	46	651	2,621	857	170	91	136
Region 06 Tennessee	49	47	59	45	73	390	197	10	(D)	(D)
Region 07 Upper Mississippi	47	53	50	47	1,769	10,299	2,503	661	432	118
Region 08 Lower Mississippi	26	48	32	34	51,741	17,644	3,992	486	171	122
Region 09 Souris-Red-Rainy	40	41	37	43	130	1,154	170	5	-	-
Region 10 Missouri	40	41	37	47	15,132	74,612	5,592	1,037	656	112
Region 11 Arkansas-White-Red	28	44	33	28	28,275	17,935	1,596	181	397	100
Region 12 Texas-Gulf	28	46	34	28	40,080	21,561	3,354	(D)	(D)	100
Region 13 Rio Grande	42	51	53	42	2,666	5,481	1,155	20	393	101
Region 14 Upper Colorado	48	39	40	56	(D)	405	255	34	(D)	(D)
Region 15 Lower Colorado	34	40	32	38	2,316	2,277	484	38	92	118
Region 16 Great Basin	41	34	38	43	812	3,264	404	134	-	-
Region 17 Pacific Northwest	63	62	57	61	319	9,394	10,518	3,063	1,385	118
Region 18 California	38	43	42	30	18,497	33,791	5,345	1,224	935	119
Region 19 Alaska	46	49	37	(D)	(D)	91	20	(D)	-	-
Region 20 Hawaii	55	53	52	(D)	-	102	34	24	-	-

Table 11. **Irrigation Pumps on Farms Other Than for Wells: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Pumps to discharge water from tailwater pits												
							Pumps by discharge capacity						
												3,000 or more gpm	
	Farms	Pumps	Average pumping lift (feet)	Average operating pressure (psi)	Average discharge capacity (gpm)	Average hours of operation (hours)	Less than 500 gpm	500 to 999 gpm	1,000 to 1,499 gpm	1,500 to 1,999 gpm	2,000 to 2,999 gpm	Pumps	Average gpm
United States	4,594	11,547	16	35	874	660	3,381	4,419	1,434	820	974	519	3,122
Alabama	15	15	11	45	297	59	9	6	-	-	-	-	-
Alaska	5	5	12	16	16	1,400	5	-	-	-	-	-	-
Arizona	45	186	15	70	909	866	(D)	-	137	(D)	(D)	-	-
Arkansas	606	2,122	15	31	1,750	799	214	62	451	433	701	261	3,217
California	1,256	2,905	26	26	548	1,137	1,615	647	357	193	83	10	3,500
Colorado	43	51	15	15	465	498	21	30	-	-	-	-	-
Connecticut	11	19	10	38	100	16	19	-	-	-	-	-	-
Delaware	6	14	30	27	657	134	-	14	-	-	-	-	-
Florida	119	256	15	41	1,205	369	(D)	143	18	(D)	46	(D)	(D)
Georgia	114	215	11	94	823	110	22	135	22	-	36	-	-
Hawaii	18	18	8	105	711	54	7	-	11	-	-	-	-
Idaho	79	238	32	52	971	1,364	6	121	27	84	-	-	-
Illinois	21	21	8	55	581	581	16	-	5	-	-	-	-
Indiana	2	(D)	(D)	(D)	(D)	(D)	-	(D)	-	-	-	-	-
Iowa	1	(D)	(D)	(D)	(D)	(D)	-	(D)	-	-	-	-	-
Kansas	119	218	9	28	451	267	90	128	-	-	-	-	-
Kentucky	21	28	13	57	401	199	21	-	-	7	-	-	-
Louisiana	55	247	12	57	2,033	298	-	(D)	(D)	12	-	132	3,011
Maine	13	25	20	79	596	226	-	25	-	-	-	-	-
Maryland	18	24	12	64	324	208	12	12	-	-	-	-	-
Massachusetts	145	209	8	32	665	100	105	42	16	(D)	(D)	-	-
Michigan	6	10	24	78	590	488	-	10	-	-	-	-	-
Minnesota	17	36	11	47	724	961	14	9	13	-	-	-	-
Mississippi	65	127	17	34	1,508	173	(D)	(D)	(D)	22	40	-	-
Missouri	16	23	12	30	1,083	363	-	(D)	-	-	(D)	(D)	(D)
Montana	68	76	6	51	872	397	28	-	35	13	-	-	-
Nebraska	832	1,955	13	22	592	357	530	1,425	-	-	-	-	-
Nevada	26	33	12	56	956	1,342	(D)	(D)	28	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	38	146	9	55	924	90	21	22	103	-	-	-	-
New Mexico	21	46	12	35	648	861	15	21	10	-	-	-	-
New York	18	18	8	73	60	179	18	-	-	-	-	-	-
North Carolina	40	99	8	90	504	575	41	48	10	-	-	-	-
North Dakota	11	11	43	52	806	209	5	3	-	3	-	-	-
Ohio	10	10	6	25	63	153	10	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	199	1,351	8	41	553	159	63	1,245	13	-	-	30	3,000
Pennsylvania	35	35	16	68	108	131	28	7	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	26	36	8	77	611	57	12	11	13	-	-	-	-
South Dakota	16	33	23	50	773	994	(D)	18	-	(D)	-	-	-
Tennessee	25	52	9	63	255	110	(D)	(D)	(D)	-	-	-	-
Texas	140	168	8	55	510	786	137	-	31	-	-	-	-
Utah	24	66	5	30	2,900	170	-	3	-	-	-	63	3,000
Vermont	7	7	30	50	800	150	-	7	-	-	-	-	-
Virginia	20	30	21	62	632	800	(D)	(D)	-	-	-	-	-
Washington	121	155	10	37	210	2,073	131	9	15	-	-	-	-
West Virginia	11	11	25	50	94	94	11	-	-	-	-	-	-
Wisconsin	45	110	11	59	1,114	413	12	23	35	(D)	(D)	-	-
Wyoming	45	83	10	45	758	540	18	32	26	-	7	-	-
Water Resources Regions													
Region 01 New England	169	253	9	37	616	106	124	67	16	(D)	(D)	-	-
Region 02 Mid-Atlantic	125	257	12	57	670	194	80	74	103	-	-	-	-
Region 03 South Atlantic-Gulf	317	627	12	69	898	284	108	343	(D)	(D)	82	(D)	(D)
Region 04 Great Lakes	50	62	13	80	487	185	22	40	-	-	-	-	-
Region 05 Ohio	55	66	14	58	326	268	50	(D)	(D)	7	-	-	-
Region 06 Tennessee	12	32	11	60	230	19	32	-	-	-	-	-	-
Region 07 Upper Mississippi	47	121	11	48	1,108	569	25	(D)	46	(D)	(D)	-	-
Region 08 Lower Mississippi	699	2,348	15	33	1,755	744	219	171	507	383	675	393	3,148
Region 09 Souris-Red-Rainy	10	16	10	34	888	1,253	-	9	7	-	-	-	-
Region 10 Missouri	1,018	2,257	13	24	619	387	598	1,569	61	20	(D)	(D)	(D)
Region 11 Arkansas-White-Red	151	330	11	33	1,077	229	98	80	-	84	68	-	-
Region 12 Texas-Gulf	131	158	8	58	519	762	129	-	29	-	-	-	-
Region 13 Rio Grande	8	17	13	21	441	487	12	(D)	(D)	-	-	-	-
Region 14 Upper Colorado	24	41	13	46	605	851	13	18	10	-	-	-	-
Region 15 Lower Colorado	45	186	15	70	909	866	(D)	-	137	(D)	(D)	-	-
Region 16 Great Basin	50	99	8	39	2,252	561	(D)	(D)	(D)	-	-	63	3,000
Region 17 Pacific Northwest	396	1,741	11	42	578	490	203	1,370	54	84	-	30	3,000
Region 18 California	1,264	2,913	26	26	549	1,136	1,617	652	358	193	83	10	3,500
Region 19 Alaska	5	5	12	16	16	1,400	5	-	-	-	-	-	-
Region 20 Hawaii	18	18	8	105	711	54	7	-	11	-	-	-	-

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Table 11. **Irrigation Pumps on Farms Other Than for Wells: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Pumps to discharge water from ponds, lakes, reservoirs, rivers, canals, etc.												
							Pumps by discharge capacity						
												3,000 or more gpm	
	Farms	Pumps	Average pumping lift (feet)	Average operating pressure (psi)	Average discharge capacity (gpm)	Average hours of operation (hours)	Less than 500 gpm	500 to 999 gpm	1,000 to 1,499 gpm	1,500 to 1,999 gpm	2,000 to 2,999 gpm	Pumps	Average gpm
United States	40,910	87,174	22	51	836	961	33,543	26,176	14,145	3,860	4,313	5,137	3,328
Alabama	363	763	31	57	625	467	367	250	108	14	12	12	5,800
Alaska	38	38	13	23	185	243	33	(D)	-	(D)	-	-	-
Arizona	123	260	18	50	1,393	1,883	(D)	6	11	32	(D)	68	4,129
Arkansas	1,131	2,698	18	32	1,502	783	513	267	691	266	581	380	3,267
California	3,896	9,458	17	43	1,153	1,285	2,148	2,660	1,779	1,152	787	932	3,333
Colorado	1,394	2,191	14	35	735	714	945	733	252	126	15	120	3,840
Connecticut	165	232	16	43	411	193	160	42	-	(D)	(D)	-	-
Delaware	56	105	11	53	793	306	7	87	(D)	(D)	(D)	-	-
Florida	1,205	2,497	10	40	917	562	1,180	548	238	150	163	218	3,778
Georgia	1,197	3,291	26	59	696	257	903	1,509	683	117	43	36	3,000
Hawaii	161	222	27	39	393	594	183	(D)	8	-	-	(D)	3,000
Idaho	4,366	11,621	22	55	792	1,538	4,173	3,806	2,547	172	545	378	3,417
Illinois	199	273	13	55	524	428	165	37	57	-	(D)	(D)	(D)
Indiana	387	625	13	56	662	468	243	299	38	(D)	(D)	25	4,064
Iowa	162	212	39	42	271	329	164	(D)	-	-	(D)	-	-
Kansas	489	726	22	33	653	309	222	285	219	-	-	-	-
Kentucky	340	472	28	46	482	267	351	29	12	20	60	-	-
Louisiana	500	1,410	13	31	1,899	493	311	56	87	172	434	350	3,317
Maine	204	290	29	70	630	196	(D)	126	(D)	-	-	(D)	(D)
Maryland	297	499	28	52	412	459	245	233	18	3	-	-	-
Massachusetts	703	1,499	19	52	757	180	692	276	(D)	(D)	(D)	(D)	(D)
Michigan	1,069	2,232	12	76	707	334	618	1,031	512	37	(D)	(D)	3,538
Minnesota	214	335	12	51	735	436	141	123	33	(D)	(D)	24	3,079
Mississippi	411	849	20	44	1,072	409	223	205	146	128	107	40	3,400
Missouri	598	819	17	49	647	355	271	407	83	19	23	16	3,375
Montana	2,223	5,487	24	45	989	1,032	1,354	1,808	1,564	258	241	262	3,609
Nebraska	1,560	3,014	31	39	675	526	645	2,017	352	-	-	-	-
Nevada	191	246	21	39	516	2,242	159	31	26	30	-	-	-
New Hampshire	117	231	15	60	129	189	(D)	-	(D)	-	-	-	-
New Jersey	259	668	10	67	629	261	234	255	159	20	-	-	-
New Mexico	266	449	15	38	1,326	1,147	131	(D)	152	-	(D)	(D)	(D)
New York	565	894	19	64	339	215	723	91	62	-	-	18	3,000
North Carolina	925	1,921	19	61	431	328	1,193	420	220	(D)	(D)	-	-
North Dakota	140	334	32	52	978	355	41	179	64	12	26	12	3,750
Ohio	455	822	17	52	394	731	577	147	72	(D)	15	(D)	3,800
Oklahoma	238	396	26	39	559	697	176	193	(D)	5	(D)	(D)	(D)
Oregon	4,776	8,995	36	60	888	984	4,205	2,356	593	243	164	1,434	3,055
Pennsylvania	704	1,014	33	50	158	181	948	29	19	18	-	-	-
Rhode Island	66	95	24	84	357	596	70	10	15	-	-	-	-
South Carolina	240	502	25	51	415	562	303	144	29	(D)	(D)	-	-
South Dakota	227	452	53	51	1,375	665	34	191	85	16	80	46	3,152
Tennessee	256	439	27	46	507	350	276	84	36	26	(D)	(D)	3,890
Texas	1,719	2,728	30	39	593	790	1,220	964	263	49	174	58	3,207
Utah	1,303	2,000	14	44	564	1,196	1,391	232	132	91	43	111	3,108
Vermont	177	252	22	48	226	143	231	9	-	-	12	-	-
Virginia	408	792	29	61	471	478	479	221	63	7	22	-	-
Washington	2,866	8,101	20	60	866	1,821	2,473	2,805	1,965	317	312	229	3,820
West Virginia	65	89	38	47	70	301	89	-	-	-	-	-	-
Wisconsin	588	1,399	12	58	1,059	308	548	326	118	97	117	193	3,237
Wyoming	908	2,237	22	45	491	1,269	1,302	581	296	49	-	9	3,600
Water Resources Regions													
Region 01 New England	1,287	2,407	20	56	621	198	1,319	454	344	115	157	18	3,833
Region 02 Mid-Atlantic	1,795	3,268	23	59	402	312	2,093	816	299	32	28	-	-
Region 03 South Atlantic-Gulf	3,998	9,080	19	55	668	400	4,003	2,937	1,314	334	232	260	3,717
Region 04 Great Lakes	1,930	3,611	14	67	575	390	1,604	1,310	575	45	30	47	3,374
Region 05 Ohio	1,113	1,552	25	48	360	390	1,147	212	76	(D)	71	(D)	(D)
Region 06 Tennessee	380	739	39	42	662	223	363	211	58	65	31	11	4,932
Region 07 Upper Mississippi	1,117	2,240	13	55	924	384	833	762	193	95	126	231	3,321
Region 08 Lower Mississippi	1,472	3,904	17	31	1,777	643	541	255	814	465	1,074	755	3,291
Region 09 Souris-Red-Rainy	94	206	26	53	899	339	50	92	31	(D)	10	(D)	(D)
Region 10 Missouri	5,554	11,715	27	44	845	773	2,747	5,424	2,516	328	378	322	3,518
Region 11 Arkansas-White-Red	1,054	1,626	19	38	691	629	811	384	205	136	62	28	3,536
Region 12 Texas-Gulf	1,630	2,410	31	29	589	826	1,183	745	213	42	174	53	3,226
Region 13 Rio Grande	324	630	19	72	1,017	642	155	307	25	26	59	58	3,800
Region 14 Upper Colorado	886	1,865	14	32	680	1,444	1,246	104	263	97	11	144	3,567
Region 15 Lower Colorado	167	304	18	51	1,287	1,789	173	6	11	32	14	68	4,129
Region 16 Great Basin	1,265	2,123	13	47	606	1,233	1,343	275	257	114	50	84	3,000
Region 17 Pacific Northwest	12,545	29,274	26	57	828	1,423	11,475	9,008	5,012	700	997	2,082	3,211
Region 18 California	4,100	9,960	17	44	1,137	1,298	2,241	2,859	1,931	1,188	809	932	3,333
Region 19 Alaska	38	38	13	23	185	243	33	(D)	-	(D)	-	-	-
Region 20 Hawaii	161	222	27	39	393	594	183	(D)	8	-	-	(D)	3,000

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Table 11. **Irrigation Pumps on Farms Other Than for Wells: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Relifting or boosting water within systems												
							Pumps by discharge capacity						
												3,000 or more gpm	
	Farms	Pumps	Average pumping lift (feet)	Average operating pressure (psi)	Average discharge capacity (gpm)	Average hours of operation (hours)	Less than 500 gpm	500 to 999 gpm	1,000 to 1,499 gpm	1,500 to 1,999 gpm	2,000 to 2,999 gpm	Pumps	Average gpm
United States	15,828	34,704	33	50	980	1,206	11,196	9,002	6,559	3,615	2,081	2,251	3,603
Alabama	40	43	21	43	519	455	(D)	(D)	-	-	(D)	-	-
Alaska	4	28	2	(D)	20	1,095	28	-	-	-	-	-	-
Arizona	336	748	14	65	845	1,255	399	(D)	163	(D)	68	47	4,381
Arkansas	384	1,422	15	37	2,141	641	58	232	211	184	329	408	3,964
California	4,956	11,633	36	50	1,151	1,350	2,688	3,159	1,895	1,968	755	1,168	3,176
Colorado	1,088	1,994	21	43	1,163	515	278	516	416	572	191	21	3,581
Connecticut	57	64	11	96	315	250	49	-	15	-	-	-	-
Delaware	2	(D)	(D)	(D)	(D)	(D)	-	-	(D)	-	-	-	-
Florida	242	731	18	48	2,005	794	53	(D)	268	(D)	170	156	4,301
Georgia	95	245	67	56	593	1,081	115	31	79	20	-	-	-
Hawaii	72	116	82	48	953	1,638	35	(D)	(D)	(D)	41	-	-
Idaho	1,438	3,169	42	55	802	1,296	1,517	530	710	241	77	94	5,787
Illinois	62	83	20	35	489	460	52	(D)	16	(D)	-	-	-
Indiana	78	126	13	59	422	314	61	56	9	-	-	-	-
Iowa	22	22	2	47	76	276	22	-	-	-	-	-	-
Kansas	46	79	9	38	477	623	38	(D)	(D)	-	(D)	-	-
Kentucky	35	46	8	51	386	993	39	-	-	-	7	-	-
Louisiana	116	209	25	28	1,814	471	49	8	29	21	58	44	3,750
Maine	4	(D)	48	98	433	210	(D)	(D)	-	-	-	-	-
Maryland	34	45	41	45	116	96	45	-	-	-	-	-	-
Massachusetts	39	89	32	36	1,741	514	28	-	-	33	-	28	3,375
Michigan	141	211	19	58	371	716	134	41	20	16	-	-	-
Minnesota	37	82	9	25	636	1,276	59	(D)	-	-	(D)	(D)	(D)
Mississippi	131	241	16	24	1,669	220	36	23	20	20	115	27	3,000
Missouri	20	29	21	29	344	759	(D)	-	-	-	(D)	-	-
Montana	389	839	18	51	677	789	343	216	235	13	4	28	3,357
Nebraska	186	949	27	19	725	834	51	812	86	-	-	-	-
Nevada	64	178	15	51	740	2,362	66	57	28	17	-	10	3,150
New Hampshire	10	21	8	30	49	216	21	-	-	-	-	-	-
New Jersey	3	(D)	(D)	73	483	(D)	(D)	(D)	-	-	-	-	-
New Mexico	608	1,296	10	77	837	869	276	52	934	(D)	-	(D)	(D)
New York	49	68	25	56	92	717	62	6	-	-	-	-	-
North Carolina	76	94	30	52	112	679	(D)	(D)	(D)	-	-	-	-
North Dakota	25	60	9	33	750	587	5	32	23	-	-	-	-
Ohio	42	74	10	34	267	496	53	8	13	-	-	-	-
Oklahoma	23	46	49	30	488	1,041	31	9	6	-	-	-	-
Oregon	517	1,207	38	65	791	1,445	445	340	270	57	77	18	3,750
Pennsylvania	45	57	19	55	76	116	57	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	34	41	18	67	296	128	29	12	-	-	-	-	-
South Dakota	39	115	16	44	1,325	763	(D)	58	26	(D)	6	20	3,000
Tennessee	17	97	14	68	24	82	97	-	-	-	-	-	-
Texas	480	1,661	88	27	390	1,699	1,208	342	34	60	17	-	-
Utah	810	1,119	13	50	641	1,825	410	337	317	40	-	15	3,100
Vermont	40	(D)	14	36	567	100	(D)	(D)	-	-	-	-	-
Virginia	49	49	46	75	90	289	(D)	(D)	-	-	-	-	-
Washington	1,329	2,887	41	68	834	1,753	1,032	1,160	335	150	90	120	3,812
West Virginia	6	6	15	65	(D)	2,555	6	-	-	-	-	-	-
Wisconsin	53	80	8	53	1,295	232	43	(D)	-	-	(D)	14	5,500
Wyoming	1,455	(D)	21	37	662	1,051	965	707	385	78	(D)	26	3,080
Water Resources Regions													
Region 01 New England	126	210	22	55	865	339	(D)	(D)	15	33	-	28	3,375
Region 02 Mid-Atlantic	113	152	23	58	136	401	142	(D)	(D)	-	-	-	-
Region 03 South Atlantic-Gulf	510	1,174	29	50	1,404	790	330	121	350	47	170	156	4,301
Region 04 Great Lakes	229	348	18	56	414	573	204	96	31	(D)	-	(D)	(D)
Region 05 Ohio	155	297	11	51	176	349	257	21	(D)	-	(D)	-	-
Region 06 Tennessee	36	39	45	58	378	548	(D)	(D)	(D)	-	(D)	-	-
Region 07 Upper Mississippi	180	274	16	43	739	633	156	65	15	12	8	18	5,083
Region 08 Lower Mississippi	529	1,519	16	30	2,020	570	110	229	257	95	496	332	4,071
Region 09 Souris-Red-Rainy	7	29	14	(D)	1,021	686	-	(D)	-	-	-	(D)	(D)
Region 10 Missouri	2,137	4,464	24	36	801	817	1,146	1,911	1,012	55	254	86	3,224
Region 11 Arkansas-White-Red	334	1,206	120	34	995	1,037	532	184	106	220	17	147	3,483
Region 12 Texas-Gulf	416	1,371	12	50	581	1,641	739	248	337	36	11	-	-
Region 13 Rio Grande	520	907	11	65	859	775	232	(D)	565	92	-	(D)	(D)
Region 14 Upper Colorado	885	1,563	13	41	1,004	1,099	349	461	210	511	8	24	3,271
Region 15 Lower Colorado	361	773	14	65	841	1,308	399	(D)	163	(D)	68	47	4,381
Region 16 Great Basin	553	815	14	57	716	1,772	256	222	295	32	-	10	3,150
Region 17 Pacific Northwest	3,691	7,739	39	62	763	1,473	3,436	2,144	1,259	442	244	214	4,680
Region 18 California	4,970	11,680	36	51	1,155	1,351	2,688	3,158	1,919	1,974	755	1,186	3,185
Region 19 Alaska	4	28	2	(D)	20	1,095	28	-	-	-	-	-	-
Region 20 Hawaii	72	116	82	48	953	1,638	35	(D)	(D)	(D)	41	-	-

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Table 11. **Irrigation Pumps on Farms Other Than for Wells: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Pumps by average discharge operating pressure (see text)											
	From tailwater pits				From ponds, lakes, reservoirs, and rivers				Relifting or boosting water			
	Less than 15 psi	15 to 29 psi	30 to 59 psi	60 psi or more	Less than 15 psi	15 to 29 psi	30 to 59 psi	60 psi or more	Less than 15 psi	15 to 29 psi	30 to 59 psi	60 psi or more
United States	1,284	3,954	4,862	1,447	3,879	10,398	42,836	30,061	2,589	2,890	16,912	12,313
Alabama	-	-	15	-	19	84	331	329	(D)	10	24	(D)
Alaska	-	5	-	-	5	15	18	-	28	-	-	-
Arizona	25	40	-	121	-	19	158	83	23	-	232	493
Arkansas	362	727	891	142	475	937	783	503	54	517	678	173
California	505	1,255	1,091	54	954	1,215	5,588	1,701	392	547	5,835	4,859
Colorado	32	12	7	-	55	449	1,647	40	79	77	1,505	333
Connecticut	-	16	-	3	3	23	168	38	-	-	-	64
Delaware	-	(D)	(D)	-	-	-	60	45	-	-	(D)	-
Florida	-	62	161	33	55	233	1,817	392	81	3	492	155
Georgia	-	4	41	170	40	194	1,476	1,581	-	-	122	123
Hawaii	-	-	7	11	-	46	126	50	(D)	(D)	69	36
Idaho	-	6	197	35	40	415	5,045	6,121	5	119	1,834	1,211
Illinois	-	-	16	5	16	67	92	98	30	-	33	20
Indiana	-	-	-	(D)	11	64	285	265	-	10	85	31
Iowa	-	(D)	-	-	10	74	73	55	-	5	11	6
Kansas	24	119	75	-	94	122	452	58	-	-	79	-
Kentucky	-	14	7	7	64	145	100	163	7	15	12	12
Louisiana	32	-	-	215	521	201	553	135	108	40	33	28
Maine	-	-	-	25	9	-	122	159	-	-	(D)	(D)
Maryland	-	(D)	(D)	(D)	-	78	260	161	(D)	(D)	29	(D)
Massachusetts	26	74	103	6	-	116	1,071	312	(D)	(D)	72	-
Michigan	-	-	-	10	34	59	727	1,412	-	64	49	98
Minnesota	-	(D)	(D)	(D)	5	57	170	103	(D)	45	(D)	-
Mississippi	6	84	12	25	49	225	308	267	-	163	78	-
Missouri	-	8	15	-	25	141	442	211	-	9	20	-
Montana	-	-	76	-	256	606	3,534	1,091	4	57	529	249
Nebraska	222	1,341	392	-	286	448	1,834	446	758	-	140	51
Nevada	-	-	23	10	52	-	160	34	-	-	109	69
New Hampshire	-	-	-	-	-	49	102	80	-	(D)	-	(D)
New Jersey	-	-	119	27	4	18	347	299	-	-	-	(D)
New Mexico	(D)	(D)	28	-	-	195	122	132	43	128	253	872
New York	-	-	6	12	48	126	200	520	3	6	34	25
North Carolina	-	-	27	72	-	220	898	803	-	-	70	24
North Dakota	-	-	8	3	28	44	117	145	-	(D)	(D)	-
Ohio	(D)	-	(D)	-	60	123	245	394	12	13	46	3
Oklahoma	-	-	-	-	100	69	143	84	-	25	21	-
Oregon	12	26	1,239	74	214	323	4,087	4,371	11	18	532	646
Pennsylvania	-	3	-	32	87	233	330	364	-	3	24	30
Rhode Island	-	-	-	-	-	-	3	92	-	-	-	-
South Carolina	-	(D)	-	(D)	21	44	289	148	-	-	15	26
South Dakota	-	-	15	18	51	43	202	156	-	18	88	9
Tennessee	-	-	(D)	(D)	30	39	221	149	-	-	7	90
Texas	18	17	11	122	26	1,541	747	414	519	428	520	194
Utah	-	-	66	-	14	290	1,422	274	38	92	601	388
Vermont	-	-	7	-	26	43	93	90	(D)	-	(D)	-
Virginia	-	7	13	10	8	164	293	327	-	-	25	24
Washington	-	94	3	58	5	50	4,044	4,002	24	104	1,254	1,505
West Virginia	-	5	-	6	9	36	16	28	-	-	-	6
Wisconsin	(D)	-	73	(D)	37	50	627	685	17	(D)	(D)	49
Wyoming	-	7	69	7	33	665	888	651	324	(D)	1,209	379
Water Resources Regions												
Region 01 New England	26	90	103	34	12	190	1,484	721	19	(D)	(D)	77
Region 02 Mid-Atlantic	-	15	156	86	90	442	1,358	1,378	(D)	(D)	91	51
Region 03 South Atlantic-Gulf	-	70	244	313	135	618	4,826	3,501	83	12	744	335
Region 04 Great Lakes	-	-	24	38	109	335	1,111	2,056	3	80	114	151
Region 05 Ohio	5	19	12	30	157	358	446	591	31	27	118	121
Region 06 Tennessee	-	-	-	32	30	227	299	183	-	4	24	11
Region 07 Upper Mississippi	(D)	(D)	88	(D)	68	180	1,045	947	35	56	112	71
Region 08 Lower Mississippi	400	813	758	377	907	1,190	1,303	504	162	692	567	98
Region 09 Souris-Red-Rainy	-	-	16	-	6	17	87	96	(D)	(D)	(D)	-
Region 10 Missouri	254	1,379	596	28	745	1,309	7,341	2,320	1,165	396	2,252	651
Region 11 Arkansas-White-Red	(D)	(D)	182	(D)	295	329	660	342	440	138	451	177
Region 12 Texas-Gulf	12	13	11	122	25	1,512	656	217	79	396	377	519
Region 13 Rio Grande	(D)	(D)	-	-	5	128	305	192	43	76	326	462
Region 14 Upper Colorado	-	-	41	-	6	1,002	602	255	38	69	1,227	229
Region 15 Lower Colorado	25	40	-	121	-	31	190	83	23	-	252	498
Region 16 Great Basin	-	-	89	10	66	123	1,502	432	-	56	376	383
Region 17 Pacific Northwest	12	126	1,437	166	243	1,131	13,792	14,108	40	277	3,867	3,555
Region 18 California	505	1,255	1,098	55	975	1,215	5,685	2,085	392	547	5,853	4,888
Region 19 Alaska	-	5	-	-	5	15	18	-	28	-	-	-
Region 20 Hawaii	-	-	7	11	-	46	126	50	(D)	(D)	69	36

Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total energy expenses for pumping [1]						
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)
			Water from wells	Surface water	Water from wells	Surface water	
United States	154,890	603,579	38,841,155	13,271,450	899,280,782	410,872,236	2,669,965
Alabama	845	1,951	52,143	53,938	11,134,312	(D)	5,206
Alaska	140	205	846	94	272,484	90,252	43
Arizona	2,105	5,630	344,797	244,137	13,394,720	7,198,800	42,674
Arkansas	4,070	54,233	4,937,274	804,206	275,748	2,054,600	165,237
California	26,621	82,725	4,062,337	3,374,360	146,003,825	76,895,859	631,515
Colorado	4,042	13,873	1,010,238	457,285	12,134,380	643,108	77,386
Connecticut	531	783	2,379	2,804	10,588,892	16,356,851	559
Delaware	357	1,672	111,313	7,424	(D)	-	3,575
Florida	7,664	23,717	728,896	657,622	318,994,532	(D)	61,082
Georgia	3,386	14,396	1,010,349	235,931	21,637,369	320,450	42,913
Hawaii	307	505	29,606	58,688	577,360	3,355,150	2,745
Idaho	7,334	24,145	1,437,386	1,550,597	524,149	1,964,160	180,959
Illinois	1,665	5,621	543,540	10,200	18,839,721	(D)	14,126
Indiana	1,677	4,865	427,441	48,310	2,840,836	3,418,040	10,629
Iowa	852	2,077	168,117	8,337	5,964,626	360,700	3,807
Kansas	5,000	24,137	2,930,251	54,507	6,284,892	3,045,400	166,176
Kentucky	587	973	26,700	18,239	468,428	5,957,180	917
Louisiana	1,890	10,405	932,434	214,853	6,484,088	971,044	37,054
Maine	671	917	11,068	10,524	8,478,318	413,504	646
Maryland	784	2,062	79,800	21,476	7,868,509	1,690,319	3,418
Massachusetts	1,196	2,780	4,095	24,638	5,723,626	2,652,266	2,673
Michigan	3,369	9,953	486,850	133,207	24,132,424	21,931,485	19,726
Minnesota	2,031	5,776	469,832	39,836	12,996,114	3,270,000	14,177
Mississippi	1,698	15,877	1,684,150	94,113	1,177,503	63,000	61,899
Missouri	2,209	14,393	1,241,670	59,586	3,783,340	481,180	27,155
Montana	3,427	8,031	54,843	1,008,777	1,921,828	155,420	19,138
Nebraska	15,334	83,018	8,009,178	477,561	1,408,368	-	405,034
Nevada	876	2,946	362,850	99,156	(D)	-	31,674
New Hampshire	404	658	1,077	2,150	4,395,296	330,268	271
New Jersey	1,057	2,755	59,693	25,617	17,850,338	6,215,835	4,512
New Mexico	4,572	10,471	429,664	195,058	652,068	237,248	41,953
New York	1,458	2,469	25,052	20,551	11,292,799	2,151,215	1,967
North Carolina	1,966	4,323	38,140	71,642	13,200,179	20,464,250	4,161
North Dakota	448	1,884	156,569	40,559	121,488	728,064	5,914
Ohio	1,066	1,924	24,842	19,379	11,304,758	16,533,838	1,878
Oklahoma	1,469	5,351	395,101	47,364	1,644,080	7,373,468	22,160
Oregon	8,329	20,122	511,998	722,381	25,723,027	17,933,053	53,003
Pennsylvania	2,545	3,844	10,679	10,934	26,643,860	1,379,470	1,117
Rhode Island	218	340	422	1,953	890,152	154,304	180
South Carolina	910	2,388	102,947	33,702	2,687,805	219,600	4,524
South Dakota	962	2,733	248,133	98,445	577,435	151,200	8,841
Tennessee	769	2,012	130,429	17,142	27,406,042	7,528,840	4,364
Texas	10,603	85,787	4,164,655	229,150	63,390,577	36,099,233	327,390
Utah	3,241	5,886	277,515	368,889	6,846,492	33,250	23,445
Vermont	373	558	338	1,947	1,356,932	444,896	162
Virginia	1,083	1,943	5,953	38,827	19,693,684	12,178,885	2,134
Washington	7,727	17,898	522,575	917,534	3,776,400	1,048,360	93,964
West Virginia	187	256	802	468	1,060,260	335,360	70
Wisconsin	2,195	6,704	433,022	47,907	14,620,018	117,500	19,343
Wyoming	2,640	5,607	141,166	589,445	134,500	167,200	16,470
Water Resources Regions							
Region 01 New England	3,151	5,664	19,130	42,370	30,321,084	19,947,193	4,352
Region 02 Mid-Atlantic	6,183	13,120	285,002	108,919	77,742,111	21,579,384	15,746
Region 03 South Atlantic-Gulf	15,102	47,381	1,927,451	1,071,104	369,620,649	135,663,348	118,514
Region 04 Great Lakes	5,621	14,616	689,249	171,501	44,930,704	39,620,452	26,690
Region 05 Ohio	3,018	6,266	316,008	43,615	32,458,821	16,200,887	9,434
Region 06 Tennessee	713	1,398	17,773	38,544	4,132,823	2,269,640	2,239
Region 07 Upper Mississippi	6,065	18,246	1,429,382	128,692	36,973,745	14,653,783	47,090
Region 08 Lower Mississippi	7,327	81,765	8,007,743	948,420	9,370,808	3,223,844	258,708
Region 09 Souris-Red-Rainy	427	1,704	143,289	24,164	367,044	818,064	4,146
Region 10 Missouri	26,077	115,412	10,158,256	2,267,886	25,744,035	852,180	548,619
Region 11 Arkansas-White-Red	8,257	51,526	4,985,193	244,040	6,261,876	12,373,668	299,200
Region 12 Texas-Gulf	8,507	69,504	2,729,537	238,689	62,756,577	34,515,233	218,962
Region 13 Rio Grande	4,918	11,259	546,223	169,166	599,068	237,248	46,374
Region 14 Upper Colorado	2,066	4,316	51,195	363,127	154,700	208,808	10,081
Region 15 Lower Colorado	2,439	6,126	362,022	268,057	13,385,020	7,198,800	44,804
Region 16 Great Basin	3,217	7,575	610,211	421,134	6,764,716	33,250	51,084
Region 17 Pacific Northwest	24,413	63,361	2,402,718	3,227,170	30,842,132	20,205,193	321,308
Region 18 California	26,942	83,630	4,130,321	3,436,070	146,005,025	77,825,859	639,828
Region 19 Alaska	140	205	846	94	272,484	90,252	43
Region 20 Hawaii	307	505	29,606	58,688	577,360	3,355,150	2,745

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total energy expenses for pumping [1] - con.					
	Expenses per irrigated acre for operations with only acres in the open (dollars) [2]		Expenses per irrigated acre for operations with only horticulture in the open (dollars) [2]		Expenses per 10,000 sq ft. for operations with only irrigated horticulture under protection (dollars) [3]	
	Water from wells	Surface water	Water from wells	Surface water	Water from wells	Surface water
United States	54.75	34.18	69.17	91.11	122.30	50.74
Alabama	42.41	51.48	83.06	(D)	72.58	38.32
Alaska	37.03	27.18	(D)	-	37.71	157.33
Arizona	126.12	22.36	20.91	(D)	500.00	-
Arkansas	29.38	21.54	175.90	47.34	96.45	-
California	127.51	47.28	81.99	182.90	207.43	11.70
Colorado	71.26	20.63	151.96	60.75	345.66	214.07
Connecticut	84.99	35.41	125.62	(D)	458.83	7.03
Delaware	31.01	44.29	41.15	35.00	66.67	-
Florida	57.93	20.57	96.67	89.65	87.47	43.45
Georgia	35.48	29.47	33.04	29.58	33.85	-
Hawaii	214.38	48.45	-	186.84	55.26	250.86
Idaho	72.08	46.57	19.55	51.24	54.64	4.49
Illinois	24.95	34.25	38.20	75.66	52.87	563.29
Indiana	22.56	20.80	35.66	220.63	155.81	249.98
Iowa	21.21	29.48	17.72	114.87	274.28	324.43
Kansas	56.73	26.64	108.75	23.98	82.48	-
Kentucky	15.90	18.57	86.71	131.91	71.75	162.04
Louisiana	32.77	24.08	69.10	113.41	57.96	50.00
Maine	24.33	21.85	68.47	(D)	24.28	73.53
Maryland	25.57	31.79	47.29	17.56	164.13	7.20
Massachusetts	120.60	86.62	262.70	140.81	182.50	148.61
Michigan	30.92	33.04	34.97	39.52	50.44	10.88
Minnesota	27.27	20.21	42.23	44.00	217.74	66.67
Mississippi	34.62	27.36	35.70	219.05	13.02	-
Missouri	20.59	20.89	78.99	21.04	47.88	32.17
Montana	28.91	17.08	45.29	(D)	49.48	15.94
Nebraska	48.39	25.32	70.83	81.67	13.67	-
Nevada	83.51	25.86	288.47	-	-	-
New Hampshire	37.37	24.57	25.62	(D)	432.32	-
New Jersey	56.80	51.35	93.73	64.70	354.11	-
New Mexico	80.74	37.34	62.11	55.00	227.17	-
New York	49.90	26.28	84.27	84.18	71.85	103.47
North Carolina	27.92	35.50	50.40	137.18	148.68	29.28
North Dakota	28.85	25.19	-	(D)	36.79	-
Ohio	30.58	36.81	37.25	83.60	70.23	79.74
Oklahoma	51.99	16.92	19.51	95.49	58.64	-
Oregon	49.38	46.11	52.19	(D)	48.76	34.90
Pennsylvania	53.52	38.49	74.46	89.29	143.08	349.26
Rhode Island	34.88	45.36	23.09	38.79	838.57	-
South Carolina	30.16	31.80	35.31	76.06	657.00	17.50
South Dakota	26.28	23.93	(D)	(D)	92.43	555.56
Tennessee	21.94	38.79	19.10	53.79	10.88	22.09
Texas	75.73	38.16	129.99	51.59	215.55	204.90
Utah	56.45	19.09	46.61	-	-	-
Vermont	34.55	70.30	49.74	(D)	108.43	113.64
Virginia	38.09	40.04	42.06	121.48	73.84	-
Washington	76.05	52.16	113.35	37.55	155.12	-
West Virginia	39.73	46.82	24.16	82.83	269.08	100.00
Wisconsin	33.23	122.90	40.79	110.01	207.35	-
Wyoming	50.06	18.11	-	25.00	8.11	437.50
Water Resources Regions						
Region 01 New England	74.90	64.49	102.38	43.51	243.30	16.73
Region 02 Mid-Atlantic	37.03	35.98	76.70	82.92	147.17	210.38
Region 03 South Atlantic-Gulf	44.48	25.09	69.50	82.85	88.65	44.36
Region 04 Great Lakes	29.25	34.23	35.33	53.51	70.16	35.10
Region 05 Ohio	22.79	28.97	28.71	93.64	28.67	51.75
Region 06 Tennessee	36.85	30.79	48.76	42.25	165.60	33.14
Region 07 Upper Mississippi	27.78	59.55	41.18	87.94	164.79	237.66
Region 08 Lower Mississippi	28.38	27.49	53.97	(D)	34.34	50.00
Region 09 Souris-Red-Rainy	24.43	17.25	-	-	216.24	-
Region 10 Missouri	49.17	19.77	97.34	30.57	67.93	85.35
Region 11 Arkansas-White-Red	60.02	13.95	34.15	58.80	219.47	257.14
Region 12 Texas-Gulf	75.65	39.74	129.99	52.08	219.25	204.90
Region 13 Rio Grande	80.13	35.18	(D)	55.00	227.17	-
Region 14 Upper Colorado	30.34	23.27	-	81.58	476.19	204.96
Region 15 Lower Colorado	125.55	20.06	20.91	(D)	555.56	-
Region 16 Great Basin	75.32	17.88	88.15	50.00	-	-
Region 17 Pacific Northwest	67.35	46.51	56.62	(D)	72.50	26.15
Region 18 California	126.02	47.19	81.82	182.90	207.37	19.58
Region 19 Alaska	37.03	27.18	(D)	-	37.71	157.33
Region 20 Hawaii	214.38	48.45	-	186.84	55.26	250.86

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total energy expenses for pumping [1] - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	58,033	14,886	25,935	15,086	13,384	14,602	12,964
Alabama	476	84	120	48	41	55	21
Alaska	131	6	1	1	1	-	-
Arizona	1,174	130	216	149	142	91	203
Arkansas	747	210	250	423	563	789	1,088
California	7,488	2,289	7,193	3,503	1,536	2,113	2,499
Colorado	1,059	638	681	336	340	516	472
Connecticut	436	45	36	-	8	6	-
Delaware	111	53	64	49	26	35	19
Florida	4,317	934	824	553	495	329	212
Georgia	1,208	366	418	433	399	371	191
Hawaii	211	19	50	14	2	3	8
Idaho	2,068	410	1,742	1,054	669	569	822
Illinois	565	152	347	223	178	145	55
Indiana	688	160	301	202	191	106	29
Iowa	376	104	171	77	77	45	2
Kansas	337	497	762	644	682	1,154	924
Kentucky	438	49	65	19	6	9	1
Louisiana	414	155	248	225	249	413	186
Maine	611	48	3	2	3	2	2
Maryland	441	63	124	60	64	26	6
Massachusetts	856	112	95	60	45	21	7
Michigan	1,884	430	352	253	206	164	80
Minnesota	602	197	583	307	219	91	32
Mississippi	245	198	211	212	155	339	338
Missouri	851	123	383	241	238	238	135
Montana	1,662	450	543	231	288	199	54
Nebraska	1,256	1,231	2,651	1,415	3,240	3,232	2,309
Nevada	132	178	93	89	59	172	153
New Hampshire	335	27	25	17	-	-	-
New Jersey	581	110	171	77	62	47	9
New Mexico	2,737	344	508	378	176	217	212
New York	1,088	162	142	17	32	13	4
North Carolina	1,387	197	231	56	46	43	6
North Dakota	61	34	137	96	49	48	23
Ohio	825	80	91	40	12	14	4
Oklahoma	526	118	191	173	187	185	89
Oregon	4,351	1,017	1,375	586	489	343	168
Pennsylvania	2,201	238	82	21	2	1	-
Rhode Island	176	9	28	5	-	-	-
South Carolina	502	91	159	47	56	37	18
South Dakota	98	93	333	211	149	56	22
Tennessee	443	49	98	68	67	27	17
Texas	2,895	727	1,632	779	1,049	1,519	2,002
Utah	1,556	244	509	405	295	147	85
Vermont	332	30	4	7	-	-	-
Virginia	876	62	62	35	21	20	7
Washington	4,087	1,238	782	696	261	363	300
West Virginia	167	12	6	1	1	-	-
Wisconsin	1,092	237	252	233	131	173	77
Wyoming	933	436	590	315	177	116	73
Water Resources Regions							
Region 01 New England	2,544	242	187	84	56	29	9
Region 02 Mid-Atlantic	4,352	622	586	242	201	138	42
Region 03 South Atlantic-Gulf	8,000	1,784	1,830	1,182	1,031	827	448
Region 04 Great Lakes	3,438	673	493	393	296	230	98
Region 05 Ohio	2,036	193	374	167	136	91	21
Region 06 Tennessee	535	42	50	30	30	14	12
Region 07 Upper Mississippi	2,320	572	1,304	750	554	405	160
Region 08 Lower Mississippi	913	475	817	913	1,027	1,616	1,566
Region 09 Souris-Red-Rainy	102	38	103	87	51	36	10
Region 10 Missouri	3,981	2,490	4,884	2,762	4,438	4,528	2,994
Region 11 Arkansas-White-Red	1,625	719	999	794	1,125	1,286	1,709
Region 12 Texas-Gulf	2,368	710	1,435	599	752	1,233	1,410
Region 13 Rio Grande	2,928	454	496	299	196	316	229
Region 14 Upper Colorado	868	348	357	328	79	76	10
Region 15 Lower Colorado	1,330	216	245	155	179	101	213
Region 16 Great Basin	1,192	222	563	431	269	276	264
Region 17 Pacific Northwest	11,645	2,764	3,791	2,346	1,394	1,233	1,240
Region 18 California	7,514	2,297	7,370	3,509	1,567	2,164	2,521
Region 19 Alaska	131	6	1	1	1	-	-
Region 20 Hawaii	211	19	50	14	2	3	8

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Electricity								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)	Expenses per acre [2] (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells	Surface water
United States	129,782	427,918	23,800,355	9,594,711	655,504,802	314,938,573	1,849,541	59.59	35.24
Alabama	730	1,494	25,976	23,888	(D)	4,627,426	2,307	47.21	32.69
Alaska	123	180	(D)	(D)	269,924	90,252	(D)	37.90	70.00
Arizona	1,861	4,824	290,295	194,401	13,394,720	7,198,800	36,901	124.51	16.90
Arkansas	3,198	25,513	2,232,279	353,234	275,748	2,054,600	71,247	27.70	37.51
California	24,124	70,370	3,471,608	2,518,381	(D)	76,143,139	544,780	130.23	49.15
Colorado	3,639	12,387	911,773	360,459	12,134,380	638,908	68,347	70.87	21.59
Connecticut	465	629	1,584	752	10,588,892	16,356,844	453	60.46	20.98
Delaware	269	927	51,329	(D)	(D)	-	1,295	24.20	60.65
Florida	5,753	11,144	234,422	113,335	125,368,560	(D)	14,819	44.07	26.03
Georgia	3,003	10,880	735,649	133,304	21,423,916	299,450	29,862	33.70	35.15
Hawaii	284	456	27,030	53,296	577,360	2,426,280	2,132	(D)	58.89
Idaho	7,206	23,674	1,418,035	1,501,439	524,149	1,964,160	177,317	71.85	45.61
Illinois	1,234	3,745	343,425	3,290	12,587,167	(D)	8,211	23.23	15.09
Indiana	1,247	3,056	260,507	16,825	(D)	2,821,160	5,443	19.66	16.63
Iowa	652	1,471	119,319	3,685	1,566,710	273,600	2,178	17.00	27.79
Kansas	2,650	8,558	902,153	18,031	6,256,892	2,980,800	57,946	64.76	38.11
Kentucky	338	474	10,559	6,666	468,428	5,339,400	412	(D)	16.82
Louisiana	1,452	5,258	419,841	71,383	6,412,088	971,044	15,935	33.86	16.75
Maine	525	606	654	365	(D)	253,504	79	51.48	12.72
Maryland	533	1,084	29,785	2,909	7,643,089	1,606,307	946	27.03	25.20
Massachusetts	696	1,237	2,173	5,226	5,702,626	1,402,266	863	138.39	89.76
Michigan	2,783	6,521	321,282	61,014	23,672,928	20,778,985	10,983	27.50	22.34
Minnesota	1,723	4,904	405,742	20,576	12,996,114	3,240,000	10,941	25.66	9.66
Mississippi	1,366	6,851	593,502	41,788	1,177,503	63,000	21,561	34.14	27.57
Missouri	1,556	6,519	505,035	27,109	3,237,440	274,180	10,664	19.58	21.87
Montana	3,012	7,356	53,843	906,929	1,921,828	144,420	17,184	32.02	16.75
Nebraska	10,510	46,031	4,319,383	198,279	1,408,368	-	208,966	46.43	15.79
Nevada	859	2,833	335,090	73,286	(D)	-	28,823	81.67	26.21
New Hampshire	347	434	456	171	4,042,784	67,260	180	31.96	30.80
New Jersey	693	1,292	21,046	3,521	(D)	5,435,791	1,584	58.89	62.05
New Mexico	4,196	8,798	326,291	167,866	652,068	192,248	34,544	85.43	35.66
New York	981	1,384	4,524	1,805	10,275,914	434,650	366	35.92	29.72
North Carolina	1,655	3,299	32,804	26,561	(D)	20,422,250	2,706	34.57	42.88
North Dakota	394	1,654	139,569	25,696	121,488	728,064	4,851	29.42	27.15
Ohio	823	1,363	19,299	5,537	11,193,958	16,325,128	1,019	26.56	51.46
Oklahoma	1,039	3,456	189,052	13,595	1,644,080	7,373,468	9,493	46.92	19.15
Oregon	8,210	19,595	491,664	687,182	25,523,024	17,003,050	51,481	50.49	47.04
Pennsylvania	1,884	2,686	8,546	2,051	(D)	1,165,930	636	43.37	32.91
Rhode Island	152	255	400	93	882,152	66,000	91	30.89	103.23
South Carolina	862	2,080	74,607	18,426	2,507,805	202,600	3,526	32.70	36.70
South Dakota	843	2,384	215,786	77,616	577,435	151,200	7,274	26.07	21.22
Tennessee	577	1,300	60,002	4,886	(D)	4,894,440	2,143	19.07	28.35
Texas	9,334	74,452	2,915,462	103,186	37,254,577	35,297,433	236,750	78.82	29.66
Utah	2,838	5,123	260,986	321,723	6,846,492	33,250	22,281	59.52	19.81
Vermont	328	428	318	729	1,297,924	444,896	120	33.90	135.38
Virginia	939	1,463	(D)	12,813	(D)	11,502,085	777	41.49	25.24
Washington	7,688	17,298	513,482	862,177	3,754,000	1,048,360	90,769	75.45	53.08
West Virginia	162	215	764	(D)	1,060,260	311,360	(D)	39.75	29.80
Wisconsin	1,679	4,894	372,772	15,641	(D)	117,500	13,077	31.32	75.12
Wyoming	2,367	5,083	125,715	531,418	134,500	167,200	15,214	54.51	17.84
Water Resources Regions									
Region 01 New England	2,312	3,315	5,356	6,731	(D)	18,185,874	1,686	82.75	74.73
Region 02 Mid-Atlantic	4,573	7,873	118,036	22,829	(D)	20,065,828	5,383	31.54	29.30
Region 03 South Atlantic-Gulf	12,304	29,576	1,104,667	337,177	(D)	57,609,988	54,062	36.70	31.35
Region 04 Great Lakes	4,483	9,838	478,350	73,788	44,079,315	36,655,537	15,649	26.23	26.01
Region 05 Ohio	2,141	3,923	170,076	13,491	32,244,781	12,628,967	4,550	19.72	25.70
Region 06 Tennessee	543	876	(D)	(D)	(D)	1,645,240	(D)	(D)	18.05
Region 07 Upper Mississippi	4,691	13,307	1,081,135	51,177	30,542,011	10,939,083	30,968	26.47	31.43
Region 08 Lower Mississippi	5,856	38,262	3,434,426	421,647	9,298,808	3,213,044	108,618	28.17	24.27
Region 09 Souris-Red-Rainy	377	1,490	127,369	14,263	367,044	818,064	3,290	24.25	10.96
Region 10 Missouri	18,941	69,896	5,717,026	1,717,936	20,784,719	596,080	311,393	48.26	19.14
Region 11 Arkansas-White-Red	5,799	27,042	2,021,426	75,217	6,261,876	11,605,668	126,590	62.61	21.16
Region 12 Texas-Gulf	7,636	63,689	2,254,096	116,462	36,620,577	34,481,433	186,832	79.31	32.01
Region 13 Rio Grande	4,576	9,937	444,248	148,008	599,068	192,248	37,275	78.78	34.97
Region 14 Upper Colorado	1,733	3,409	38,867	301,220	154,700	204,608	8,096	34.34	22.28
Region 15 Lower Colorado	2,187	5,312	307,568	214,601	13,385,020	7,198,800	38,989	123.96	14.95
Region 16 Great Basin	2,854	6,708	572,195	350,246	6,764,716	33,250	47,086	75.40	18.18
Region 17 Pacific Northwest	23,942	61,619	2,355,942	3,100,487	30,619,729	20,205,190	313,660	67.38	46.44
Region 18 California	24,427	71,210	3,534,172	2,567,766	(D)	76,143,139	552,410	128.42	49.04
Region 19 Alaska	123	180	(D)	(D)	269,924	90,252	(D)	37.90	70.00
Region 20 Hawaii	284	456	27,030	53,296	577,360	2,426,280	2,132	(D)	58.89

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Electricity - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	51,251	13,448	23,288	13,448	9,516	10,516	8,315
Alabama	459	78	89	41	31	29	3
Alaska	120	1	1	1	-	-	-
Arizona	1,036	130	162	140	132	81	180
Arkansas	676	221	439	356	489	593	424
California	6,199	2,257	6,693	3,420	1,385	2,060	2,110
Colorado	1,033	630	469	328	344	435	400
Connecticut	402	30	19	-	8	6	-
Delaware	117	41	45	24	29	10	3
Florida	3,812	787	624	294	103	96	37
Georgia	1,097	378	432	420	258	283	135
Hawaii	201	15	42	14	4	1	7
Idaho	2,051	412	1,747	1,031	600	603	762
Illinois	486	138	292	121	85	84	28
Indiana	510	148	271	147	119	46	6
Iowa	300	95	124	73	40	19	1
Kansas	287	275	491	607	306	467	217
Kentucky	269	28	25	7	4	5	-
Louisiana	429	185	217	191	180	197	53
Maine	524	1	-	-	-	-	-
Maryland	344	51	74	43	16	5	-
Massachusetts	552	29	52	47	9	7	-
Michigan	1,778	284	293	171	113	108	36
Minnesota	560	203	466	227	164	79	24
Mississippi	292	214	266	174	124	171	125
Missouri	623	175	315	146	140	123	34
Montana	1,456	368	496	216	269	153	54
Nebraska	395	1,349	2,681	1,472	1,688	1,933	992
Nevada	132	178	99	80	59	172	139
New Hampshire	306	17	8	16	-	-	-
New Jersey	467	52	93	38	26	15	2
New Mexico	2,589	421	372	317	136	181	180
New York	880	41	57	3	-	-	-
North Carolina	1,311	123	141	22	17	38	3
North Dakota	61	37	124	83	32	37	20
Ohio	669	51	63	25	6	8	1
Oklahoma	440	112	143	104	111	91	38
Oregon	4,332	946	1,372	589	467	337	167
Pennsylvania	1,693	129	54	8	-	-	-
Rhode Island	133	4	15	-	-	-	-
South Carolina	493	96	139	46	44	32	12
South Dakota	105	95	288	183	109	45	18
Tennessee	346	36	91	55	35	7	7
Texas	2,926	532	1,365	594	1,054	1,260	1,603
Utah	1,355	183	406	397	269	147	81
Vermont	301	19	1	7	-	-	-
Virginia	813	38	44	25	15	4	-
Washington	4,066	1,283	765	698	237	349	290
West Virginia	156	3	1	1	1	-	-
Wisconsin	882	142	242	161	110	89	53
Wyoming	787	387	580	285	148	110	70
Water Resources Regions							
Region 01 New England	2,044	81	94	63	17	13	-
Region 02 Mid-Atlantic	3,650	322	340	138	84	34	5
Region 03 South Atlantic-Gulf	7,257	1,579	1,512	823	458	483	192
Region 04 Great Lakes	2,986	408	422	281	193	146	47
Region 05 Ohio	1,523	157	257	92	70	38	4
Region 06 Tennessee	457	23	31	19	9	-	4
Region 07 Upper Mississippi	1,896	523	1,084	498	349	244	97
Region 08 Lower Mississippi	1,063	586	1,021	797	853	949	587
Region 09 Souris-Red-Rainy	97	39	80	86	36	32	7
Region 10 Missouri	2,823	2,253	4,499	2,596	2,601	2,692	1,477
Region 11 Arkansas-White-Red	1,363	734	698	726	780	813	685
Region 12 Texas-Gulf	2,393	519	1,295	438	726	1,003	1,262
Region 13 Rio Grande	2,798	531	364	244	152	288	199
Region 14 Upper Colorado	769	280	236	310	77	56	5
Region 15 Lower Colorado	1,204	196	191	146	169	91	190
Region 16 Great Basin	1,008	201	475	422	227	275	246
Region 17 Pacific Northwest	11,373	2,741	3,776	2,328	1,307	1,248	1,169
Region 18 California	6,226	2,259	6,870	3,426	1,404	2,110	2,132
Region 19 Alaska	120	1	1	1	-	-	-
Region 20 Hawaii	201	15	42	14	4	1	7

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Natural gas								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)	Expenses per acre [2] (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells	Surface water
United States	8,130	32,292	3,931,248	191,984	88,000	1,210,000	221,950	55.38	25.21
Alabama	6	6	110	70	-	(D)	4	(D)	25.00
Alaska	-	-	-	-	-	-	-	-	-
Arizona	103	222	22,620	(D)	-	-	3,302	169.41	-
Arkansas	238	1,052	90,061	22,760	-	-	2,209	24.97	5.25
California	578	810	25,564	22,740	-	-	2,819	106.91	166.67
Colorado	133	405	67,105	3,000	-	-	5,017	70.85	87.50
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	21	56	2,512	(D)	-	-	242	82.26	-
Georgia	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Idaho	21	21	500	1,460	-	-	137	-	51.67
Illinois	11	18	1,733	-	-	-	50	28.91	-
Indiana	24	34	3,827	-	-	-	167	43.68	-
Iowa	4	4	316	-	-	-	6	17.87	-
Kansas	2,172	9,900	1,470,896	(D)	28,000	(D)	85,100	57.87	-
Kentucky	5	10	-	75	-	-	3	-	33.33
Louisiana	61	105	10,245	5,011	-	-	618	43.58	38.86
Maine	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-
Michigan	8	8	(D)	(D)	-	-	59	45.35	(D)
Minnesota	1	(D)	(D)	-	-	-	(D)	(D)	-
Mississippi	16	(D)	(D)	2,068	-	-	(D)	(D)	28.79
Missouri	11	18	2,223	12	-	-	17	7.28	30.00
Montana	91	95	-	5,961	-	-	133	-	22.27
Nebraska	2,419	8,609	958,094	55,201	-	-	36,380	32.99	30.00
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-
New Mexico	217	713	60,832	11,943	-	-	2,853	39.89	58.28
New York	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	2	(D)	(D)	-	-	-	(D)	(D)	-
Oklahoma	317	1,354	165,847	19,720	-	-	10,480	62.87	(D)
Oregon	126	126	480	-	-	930,000	13	14.25	-
Pennsylvania	34	34	-	90	60,000	-	5	-	14.31
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
South Dakota	1	(D)	(D)	(D)	-	-	(D)	-	-
Tennessee	11	12	1,436	-	-	-	20	14.26	-
Texas	1,471	8,534	1,034,293	28,530	-	-	71,788	68.83	11.11
Utah	2	(D)	-	(D)	-	-	(D)	-	(D)
Vermont	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	1	(D)	(D)	-	-	-	(D)	(D)	-
Wyoming	25	27	1,120	4,098	-	-	94	9.38	20.33
Water Resources Regions									
Region 01 New England	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	31	31	-	75	60,000	-	5	-	14.33
Region 03 South Atlantic-Gulf	38	73	2,622	2,538	-	(D)	306	80.61	28.73
Region 04 Great Lakes	18	27	2,927	(D)	-	-	126	39.95	(D)
Region 05 Ohio	16	25	1,400	90	-	-	106	73.88	30.14
Region 06 Tennessee	7	7	35	-	-	-	(Z)	14.20	-
Region 07 Upper Mississippi	23	31	3,212	-	-	-	118	36.58	-
Region 08 Lower Mississippi	250	922	95,460	16,749	-	-	2,599	26.33	26.56
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	3,256	11,515	1,339,592	64,604	28,000	(D)	56,521	38.94	25.05
Region 11 Arkansas-White-Red	2,603	14,547	2,094,145	31,022	-	-	136,026	65.01	3.85
Region 12 Texas-Gulf	795	3,254	283,749	30,241	-	-	14,886	51.28	12.12
Region 13 Rio Grande	163	549	58,942	(D)	-	-	4,236	70.94	(D)
Region 14 Upper Colorado	17	47	-	11,268	-	-	732	-	65.00
Region 15 Lower Colorado	103	222	22,620	(D)	-	-	3,302	169.41	-
Region 16 Great Basin	7	7	500	3,500	-	-	99	-	(D)
Region 17 Pacific Northwest	219	219	480	1,873	-	-	61	14.25	29.05
Region 18 California	584	816	25,564	22,740	-	930,000	2,825	106.91	166.67
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Natural gas - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	951	508	1,178	1,302	1,285	1,793	1,113
Alabama	4	2	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Arizona	9	12	-	21	15	29	17
Arkansas	10	27	95	51	24	28	3
California	461	-	-	81	-	29	7
Colorado	-	-	-	20	25	21	67
Connecticut	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-
Florida	-	-	8	-	11	2	-
Georgia	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Idaho	-	-	16	-	5	-	-
Illinois	-	1	7	2	1	-	-
Indiana	8	-	9	-	4	3	-
Iowa	2	-	2	-	-	-	-
Kansas	19	81	69	364	361	801	477
Kentucky	5	-	-	-	-	-	-
Louisiana	23	-	7	6	15	10	-
Maine	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-
Michigan	-	-	2	6	-	-	-
Minnesota	-	-	-	1	-	-	-
Mississippi	3	-	-	12	-	-	1
Missouri	6	-	5	-	-	-	-
Montana	83	-	4	-	-	4	-
Nebraska	21	305	616	358	481	534	104
Nevada	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-
New Mexico	68	4	33	30	32	42	8
New York	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	2	-
Oklahoma	3	37	57	45	59	61	55
Oregon	120	6	-	-	-	-	-
Pennsylvania	34	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	1	-
Tennessee	7	-	1	3	-	-	-
Texas	64	26	231	300	250	226	374
Utah	-	-	-	2	-	-	-
Vermont	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-
Wisconsin	1	-	-	-	-	-	-
Wyoming	-	7	16	-	2	-	-
Water Resources Regions							
Region 01 New England	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	31	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	4	2	8	11	11	2	-
Region 04 Great Lakes	2	-	8	6	-	2	-
Region 05 Ohio	10	-	2	-	2	2	-
Region 06 Tennessee	7	-	-	-	-	-	-
Region 07 Upper Mississippi	7	1	8	3	3	1	-
Region 08 Lower Mississippi	36	10	81	55	33	31	4
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-
Region 10 Missouri	27	358	643	519	684	839	186
Region 11 Arkansas-White-Red	46	112	275	356	323	702	789
Region 12 Texas-Gulf	40	4	104	227	194	136	90
Region 13 Rio Grande	68	3	33	18	13	14	14
Region 14 Upper Colorado	-	-	-	3	2	6	6
Region 15 Lower Colorado	9	12	-	21	15	29	17
Region 16 Great Basin	-	-	-	2	5	-	-
Region 17 Pacific Northwest	203	-	16	-	-	-	-
Region 18 California	461	6	-	81	-	29	7
Region 19 Alaska	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	LP gas, propane, and butane								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)	Expenses per acre [2] (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells	Surface water
United States	6,204	13,444	937,556	178,251	1,075,200	404,100	38,206	36.91	35.21
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	24	48	(D)	(D)	-	-	59	57.14	-
Arkansas	216	483	44,933	6,986	-	-	1,274	25.55	28.22
California	498	1,105	26,508	22,006	-	-	1,205	59.70	75.08
Colorado	36	45	(D)	4,750	-	-	146	68.35	2.61
Connecticut	12	14	-	187	-	-	5	-	25.24
Delaware	4	10	824	-	-	-	3	3.48	-
Florida	45	51	1,575	40	594,000	-	58	20.32	-
Georgia	49	74	1,541	1,969	-	-	120	31.25	47.58
Hawaii	-	-	-	-	-	-	-	-	-
Idaho	8	8	-	120	-	-	2	-	19.27
Illinois	72	191	10,139	757	-	-	279	24.99	33.40
Indiana	42	95	13,162	377	-	-	531	38.88	(D)
Iowa	20	20	795	228	-	-	34	30.33	43.42
Kansas	514	861	74,922	2,886	-	-	2,856	37.03	27.51
Kentucky	6	6	-	12	-	-	(Z)	-	19.50
Louisiana	29	54	(D)	2,635	-	-	166	13.91	30.00
Maine	-	-	-	-	-	-	-	-	-
Maryland	1	(D)	-	(D)	-	-	(D)	-	(D)
Massachusetts	252	663	504	4,749	-	128,000	702	121.90	136.37
Michigan	51	141	16,766	1,400	-	-	603	34.50	25.00
Minnesota	-	-	-	-	-	-	-	-	-
Mississippi	149	578	78,294	3,542	-	-	2,039	23.08	43.53
Missouri	371	2,019	169,316	4,312	-	-	3,185	18.44	14.74
Montana	8	8	-	2,260	-	-	42	-	18.41
Nebraska	3,305	6,311	461,872	82,080	-	-	22,542	49.72	21.45
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	8	8	56	928	200,000	200,000	24	-	-
New Jersey	8	21	-	1,290	-	-	14	-	10.57
New Mexico	105	114	5,507	301	-	-	407	73.61	15.32
New York	-	-	-	-	-	-	-	-	-
North Carolina	20	20	-	764	-	-	32	-	42.05
North Dakota	6	6	(D)	270	-	-	15	(D)	35.19
Ohio	5	(D)	-	553	-	-	(D)	-	33.91
Oklahoma	49	50	3,445	919	-	-	193	55.18	(D)
Oregon	5	8	-	1,219	(D)	-	21	-	20.50
Pennsylvania	21	29	132	289	(D)	-	14	(D)	33.43
Rhode Island	27	31	-	577	-	76,100	33	-	80.00
South Carolina	2	(D)	-	(D)	-	-	(D)	-	(D)
South Dakota	10	(D)	(D)	(D)	-	-	(D)	24.00	13.90
Tennessee	15	41	2,888	550	50,000	-	109	24.64	(D)
Texas	95	124	2,770	7,480	-	-	201	28.23	16.42
Utah	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	2	(D)	-	(D)	-	-	(D)	-	(D)
Washington	45	85	1,291	2,711	-	-	517	113.16	128.51
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	20	(D)	(D)	1,184	-	-	208	48.33	139.56
Wyoming	49	65	840	15,472	-	-	509	-	42.19
Water Resources Regions									
Region 01 New England	299	716	560	6,441	200,000	404,100	763	121.90	131.75
Region 02 Mid-Atlantic	34	61	956	1,593	31,200	-	30	6.23	14.34
Region 03 South Atlantic-Gulf	116	147	3,116	2,793	594,000	-	229	26.37	55.56
Region 04 Great Lakes	64	170	18,126	(D)	-	-	780	41.02	26.71
Region 05 Ohio	61	145	15,184	476	(D)	-	421	26.93	(D)
Region 06 Tennessee	3	8	-	(D)	-	-	(D)	-	(D)
Region 07 Upper Mississippi	103	282	16,996	1,924	-	-	618	24.60	101.57
Region 08 Lower Mississippi	641	2,842	281,031	12,577	-	-	6,131	20.34	27.05
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	3,692	6,947	499,939	104,566	-	-	24,863	49.31	25.99
Region 11 Arkansas-White-Red	401	615	55,429	9,839	-	-	1,817	30.59	12.43
Region 12 Texas-Gulf	98	127	2,740	7,480	-	-	223	36.47	16.42
Region 13 Rio Grande	108	117	6,275	(D)	-	-	469	75.14	-
Region 14 Upper Colorado	4	13	(D)	(D)	-	-	(D)	-	15.32
Region 15 Lower Colorado	24	48	(D)	(D)	-	-	59	57.14	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	57	97	1,291	3,817	(D)	-	538	113.16	106.81
Region 18 California	499	1,109	26,508	22,239	-	-	1,207	59.70	69.23
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	LP gas, propane, and butane - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	1,630	943	1,578	861	777	337	78
Alabama	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Arizona	-	-	23	-	1	-	-
Arkansas	14	78	34	57	16	16	1
California	461	-	17	5	1	9	5
Colorado	20	4	-	-	11	1	-
Connecticut	9	3	-	-	-	-	-
Delaware	2	2	-	-	-	-	-
Florida	29	-	15	-	1	-	-
Georgia	22	14	5	8	-	-	-
Hawaii	-	-	-	-	-	-	-
Idaho	8	-	-	-	-	-	-
Illinois	11	10	32	19	-	-	-
Indiana	3	13	9	5	6	2	4
Iowa	4	10	6	-	-	-	-
Kansas	163	110	65	87	46	43	-
Kentucky	6	-	-	-	-	-	-
Louisiana	-	3	17	1	8	-	-
Maine	-	-	-	-	-	-	-
Maryland	-	1	-	-	-	-	-
Massachusetts	152	27	35	12	25	-	1
Michigan	4	7	11	22	5	-	2
Minnesota	-	-	-	-	-	-	-
Mississippi	1	10	38	37	40	10	13
Missouri	33	60	104	84	31	57	2
Montana	-	-	4	4	-	-	-
Nebraska	527	553	963	496	536	186	44
Nevada	-	-	-	-	-	-	-
New Hampshire	-	-	8	-	-	-	-
New Jersey	6	-	-	2	-	-	-
New Mexico	43	5	32	8	17	-	-
New York	-	-	-	-	-	-	-
North Carolina	7	-	13	-	-	-	-
North Dakota	-	5	-	1	-	-	-
Ohio	2	-	-	3	-	-	-
Oklahoma	-	11	31	4	3	-	-
Oregon	-	-	3	2	-	-	-
Pennsylvania	12	7	2	-	-	-	-
Rhode Island	15	-	12	-	-	-	-
South Carolina	-	-	-	2	-	-	-
South Dakota	-	5	5	-	-	-	-
Tennessee	5	2	3	2	1	2	-
Texas	48	-	46	-	-	-	1
Utah	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-
Virginia	2	-	-	-	-	-	-
Washington	-	-	37	-	-	6	2
West Virginia	-	-	-	-	-	-	-
Wisconsin	7	3	3	-	2	5	-
Wyoming	14	-	5	-	27	-	3
Water Resources Regions							
Region 01 New England	176	30	55	12	25	-	1
Region 02 Mid-Atlantic	22	8	2	2	-	-	-
Region 03 South Atlantic-Gulf	58	14	33	10	1	-	-
Region 04 Great Lakes	9	7	13	25	6	-	4
Region 05 Ohio	16	10	21	8	2	2	2
Region 06 Tennessee	-	2	-	-	-	1	-
Region 07 Upper Mississippi	15	26	24	21	9	8	-
Region 08 Lower Mississippi	39	81	175	166	89	75	16
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-
Region 10 Missouri	642	617	1,049	545	569	223	47
Region 11 Arkansas-White-Red	93	139	54	57	46	12	-
Region 12 Texas-Gulf	48	-	46	3	-	-	1
Region 13 Rio Grande	43	6	26	5	28	-	-
Region 14 Upper Colorado	-	3	-	-	-	1	-
Region 15 Lower Colorado	-	-	23	-	1	-	-
Region 16 Great Basin	-	-	-	-	-	-	-
Region 17 Pacific Northwest	8	-	39	2	-	6	2
Region 18 California	461	-	18	5	1	9	5
Region 19 Alaska	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Diesel and biodiesel fuel								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)	Expenses per acre [2] (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells	Surface water
United States	33,196	122,704	10,079,483	3,267,971	239,411,251	86,463,751	554,003	45.61	31.45
Alabama	180	423	26,057	29,607	(D)	(D)	2,874	40.63	63.94
Alaska	8	12	(D)	(D)	2,560	-	(D)	(D)	(D)
Arizona	94	275	19,939	41,062	-	-	2,259	53.32	41.63
Arkansas	2,871	26,781	2,529,855	418,649	-	-	88,679	32.15	25.54
California	3,538	10,416	538,641	811,217	(D)	752,720	82,707	120.68	36.13
Colorado	400	825	28,452	86,118	-	-	3,568	72.88	17.35
Connecticut	32	58	(D)	1,505	-	-	44	-	17.03
Delaware	187	712	57,749	5,188	(D)	-	2,252	36.91	41.04
Florida	2,468	12,113	487,859	543,813	193,031,972	(D)	45,826	69.19	19.85
Georgia	1,028	3,320	273,060	100,615	213,453	21,000	12,911	36.19	25.52
Hawaii	6	13	2,576	5,350	-	-	(D)	(D)	(D)
Idaho	227	359	18,851	46,802	-	-	3,454	83.21	58.86
Illinois	609	1,524	185,509	6,047	6,252,554	(D)	5,535	28.44	41.34
Indiana	617	1,526	149,787	30,980	111,480	540,000	4,475	26.00	25.55
Iowa	228	482	47,342	4,150	(D)	9,600	1,560	31.35	25.35
Kansas	1,683	4,560	480,501	33,174	-	-	20,258	42.73	26.97
Kentucky	116	251	16,001	10,621	-	(D)	445	(D)	16.94
Louisiana	1,047	4,954	495,564	134,914	72,000	-	20,282	32.11	29.46
Maine	94	196	10,374	9,881	-	80,000	557	(D)	22.27
Maryland	279	791	49,584	17,997	(D)	-	2,421	25.07	36.66
Massachusetts	312	682	1,240	13,830	21,000	1,092,000	1,076	100.33	76.67
Michigan	957	2,957	144,908	69,601	(D)	63,500	7,961	35.30	43.91
Minnesota	479	851	63,860	19,230	-	-	3,227	39.79	30.07
Mississippi	1,056	8,330	999,993	46,715	-	-	37,744	36.46	32.79
Missouri	916	5,476	558,005	25,909	(D)	-	13,127	22.23	21.04
Montana	332	475	1,000	88,595	-	-	1,722	16.00	19.25
Nebraska	7,405	21,893	2,260,941	141,977	-	-	135,969	58.00	49.67
Nevada	39	113	27,760	25,870	-	-	2,851	118.33	(D)
New Hampshire	41	54	(D)	475	(D)	-	19	(D)	25.73
New Jersey	425	1,321	37,900	20,508	3,492,294	440,044	2,829	52.25	48.80
New Mexico	280	529	30,038	13,960	-	-	3,945	149.25	55.38
New York	356	755	20,072	16,543	(D)	1,332,500	1,439	51.82	19.97
North Carolina	410	889	5,322	44,053	-	42,000	1,386	(D)	30.83
North Dakota	105	224	(D)	14,593	-	-	1,049	43.89	22.66
Ohio	174	330	4,650	11,946	(D)	108,940	676	58.06	34.08
Oklahoma	194	394	36,637	12,597	-	-	1,913	35.83	30.25
Oregon	208	393	19,854	33,980	(D)	3	1,488	20.38	24.49
Pennsylvania	353	467	1,279	6,831	154,400	34,800	288	58.31	35.83
Rhode Island	17	28	-	1,283	-	12,204	53	-	41.14
South Carolina	82	246	28,312	14,817	(D)	17,000	959	22.58	22.85
South Dakota	191	320	31,097	18,124	-	-	1,507	27.09	38.00
Tennessee	204	537	66,072	10,752	-	2,613,600	2,052	24.54	39.97
Texas	1,237	2,468	209,232	89,726	26,136,000	-	18,535	65.67	64.86
Utah	459	631	15,344	42,766	-	-	1,110	24.35	17.22
Vermont	37	57	-	508	-	-	10	-	18.79
Virginia	137	305	(D)	25,043	-	97,020	1,250	21.25	48.15
Washington	177	489	7,077	52,332	22,400	-	2,496	71.19	37.35
West Virginia	6	9	-	(D)	-	-	4	-	25.00
Wisconsin	677	1,609	58,563	30,957	-	-	6,019	41.56	128.20
Wyoming	218	281	13,455	36,544	-	-	586	9.72	12.18
Water Resources Regions									
Region 01 New England	505	1,047	12,430	27,148	(D)	1,184,204	1,751	39.45	55.66
Region 02 Mid-Atlantic	1,587	4,065	161,827	80,223	4,742,904	(D)	9,832	39.95	37.43
Region 03 South Atlantic-Gulf	4,175	16,934	814,377	727,434	(D)	75,750,140	63,697	55.12	23.36
Region 04 Great Lakes	1,401	3,762	186,308	91,998	(D)	1,396,000	9,854	33.47	39.76
Region 05 Ohio	683	1,520	126,804	27,138	(D)	2,736,540	4,155	26.79	29.96
Region 06 Tennessee	157	(D)	(D)	28,592	9	(D)	1,290	(D)	32.20
Region 07 Upper Mississippi	1,832	4,242	326,843	74,999	(D)	3,554,900	15,307	32.73	72.44
Region 08 Lower Mississippi	5,081	39,290	4,150,189	495,434	72,000	-	139,206	29.95	32.79
Region 09 Souris-Red-Rainy	82	(D)	(D)	9,901	-	-	(D)	39.04	25.65
Region 10 Missouri	9,465	26,222	2,590,073	371,751	(D)	-	154,262	56.03	23.23
Region 11 Arkansas-White-Red	1,777	9,014	809,476	125,106	-	-	34,567	43.28	14.32
Region 12 Texas-Gulf	1,144	2,237	186,454	84,377	26,136,000	-	16,921	65.93	70.59
Region 13 Rio Grande	325	603	36,758	(D)	-	-	4,353	127.46	39.13
Region 14 Upper Colorado	269	541	4,684	50,210	-	-	1,063	14.50	19.82
Region 15 Lower Colorado	126	307	19,939	44,782	-	-	2,303	53.32	38.88
Region 16 Great Basin	438	730	36,331	65,988	-	-	3,856	77.08	16.40
Region 17 Pacific Northwest	578	1,123	44,280	117,395	(D)	3	6,741	60.10	45.49
Region 18 California	3,557	10,471	544,061	823,309	(D)	752,720	83,382	119.39	35.86
Region 19 Alaska	8	12	(D)	(D)	2,560	-	(D)	(D)	(D)
Region 20 Hawaii	6	13	2,576	5,350	-	-	(D)	(D)	(D)

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Diesel and biodiesel fuel - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	6,190	2,925	6,428	5,067	5,359	4,515	2,712
Alabama	27	16	50	26	17	29	15
Alaska	2	5	-	-	1	-	-
Arizona	27	-	34	1	10	13	9
Arkansas	213	122	356	431	451	756	542
California	810	230	764	628	310	294	502
Colorado	11	144	152	19	15	58	1
Connecticut	26	2	2	-	2	-	-
Delaware	34	15	58	21	24	24	11
Florida	653	225	446	344	348	277	175
Georgia	173	112	264	192	137	106	44
Hawaii	-	-	2	-	2	-	2
Idaho	4	17	56	-	72	62	16
Illinois	68	38	177	147	107	59	13
Indiana	126	64	173	122	74	51	7
Iowa	20	38	73	46	34	17	-
Kansas	373	181	421	211	119	296	82
Kentucky	34	27	35	14	1	4	1
Louisiana	120	38	187	156	253	185	108
Maine	35	47	3	2	3	2	2
Maryland	62	21	93	36	43	18	6
Massachusetts	171	52	54	9	7	18	1
Michigan	281	200	158	104	124	59	31
Minnesota	51	46	184	121	59	15	3
Mississippi	38	75	110	152	199	273	209
Missouri	84	123	190	190	158	129	42
Montana	40	127	80	31	19	35	-
Nebraska	776	173	1,058	1,219	2,279	1,176	724
Nevada	-	-	-	9	6	3	21
New Hampshire	40	-	-	1	-	-	-
New Jersey	151	62	87	61	33	25	6
New Mexico	62	44	35	77	31	19	12
New York	140	86	67	27	19	13	4
North Carolina	190	70	65	47	31	6	1
North Dakota	5	5	38	25	18	11	3
Ohio	102	17	25	18	3	6	3
Oklahoma	33	11	52	31	42	22	3
Oregon	36	89	33	12	25	8	5
Pennsylvania	292	30	19	9	2	1	-
Rhode Island	6	5	1	5	-	-	-
South Carolina	16	22	13	9	12	4	6
South Dakota	2	22	78	41	33	13	2
Tennessee	51	18	47	35	33	11	9
Texas	180	60	322	193	106	320	56
Utah	220	61	120	38	16	4	-
Vermont	36	1	-	-	-	-	-
Virginia	44	21	29	17	9	11	6
Washington	41	6	50	56	8	3	13
West Virginia	3	3	-	-	-	-	-
Wisconsin	185	95	137	110	59	75	16
Wyoming	96	59	30	24	5	4	-
Water Resources Regions							
Region 01 New England	286	107	60	17	12	20	3
Region 02 Mid-Atlantic	622	225	341	156	124	89	30
Region 03 South Atlantic-Gulf	1,070	447	835	625	548	411	239
Region 04 Great Lakes	481	294	210	160	142	78	36
Region 05 Ohio	207	63	184	130	49	41	9
Region 06 Tennessee	49	17	30	29	13	12	7
Region 07 Upper Mississippi	311	149	541	378	266	159	28
Region 08 Lower Mississippi	317	317	697	787	941	1,229	793
Region 09 Souris-Red-Rainy	6	3	39	12	14	4	4
Region 10 Missouri	1,080	548	1,643	1,539	2,427	1,471	757
Region 11 Arkansas-White-Red	314	191	382	215	237	260	178
Region 12 Texas-Gulf	186	60	264	185	81	320	48
Region 13 Rio Grande	44	44	69	82	55	19	12
Region 14 Upper Colorado	85	72	83	15	-	14	-
Region 15 Lower Colorado	39	20	34	1	10	13	9
Region 16 Great Basin	200	21	112	40	38	8	19
Region 17 Pacific Northwest	81	112	138	64	77	72	34
Region 18 California	810	230	764	632	322	295	504
Region 19 Alaska	2	5	-	-	1	-	-
Region 20 Hawaii	-	-	2	-	2	-	2

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Gasoline, ethanol, and blends								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses ($1,000)	Expenses per acre [2] (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells	Surface water
United States	4,773	7,221	92,513	38,533	3,201,529	7,855,812	6,265	48.29	47.04
Alabama	14	28	-	373	-	-	22	-	57.91
Alaska	13	13	10	(D)	-	-	4	(D)	122.00
Arizona	141	261	(D)	3,774	-	-	152	25.00	50.00
Arkansas	125	404	40,146	2,577	-	-	1,829	42.57	14.64
California	24	24	16	16	-	-	4	137.50	115.00
Colorado	202	211	(D)	2,958	-	4,200	308	(D)	93.50
Connecticut	66	82	(D)	360	-	7	57	16.00	124.35
Delaware	16	23	1,411	(D)	-	-	26	12.35	-
Florida	181	353	2,528	(D)	-	(D)	137	49.67	170.00
Georgia	86	122	99	43	-	-	19	83.64	250.23
Hawaii	20	36	-	42	-	928,870	(D)	-	(D)
Idaho	46	83	-	776	-	-	48	-	61.57
Illinois	82	143	2,734	106	-	(D)	51	16.28	29.79
Indiana	117	154	158	128	(D)	56,880	12	53.69	20.27
Iowa	85	100	345	274	(D)	77,500	30	28.24	69.09
Kansas	162	258	1,779	(D)	-	(D)	16	(D)	35.00
Kentucky	155	232	140	865	-	(D)	57	10.00	49.44
Louisiana	18	34	(D)	910	-	-	53	-	59.09
Maine	94	115	40	278	(D)	80,000	11	77.00	22.96
Maryland	103	(D)	431	(D)	(D)	84,012	(D)	(D)	83.39
Massachusetts	152	198	178	833	-	30,000	32	26.66	38.09
Michigan	197	326	(D)	(D)	(D)	1,089,000	120	32.04	31.43
Minnesota	13	(D)	(D)	30	-	30,000	(D)	11.79	(D)
Mississippi	2	(D)	(D)	-	-	-	(D)	(D)	-
Missouri	254	361	7,091	2,244	(D)	207,000	162	16.70	12.46
Montana	97	97	-	5,032	-	11,000	58	-	11.47
Nebraska	143	174	8,888	24	-	-	1,176	132.09	81.67
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	83	162	(D)	576	(D)	63,008	49	24.78	21.27
New Jersey	79	121	747	298	(D)	340,000	85	81.80	47.12
New Mexico	97	317	6,996	988	-	45,000	205	23.33	32.00
New York	253	330	456	2,203	(D)	384,065	162	25.86	64.21
North Carolina	81	115	14	264	(D)	-	37	80.00	128.26
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	156	211	(D)	1,343	(D)	99,770	101	65.94	53.73
Oklahoma	61	97	120	533	-	-	80	75.00	133.06
Oregon	-	-	-	-	-	-	-	-	-
Pennsylvania	460	628	722	1,673	(D)	178,740	175	139.09	57.02
Rhode Island	26	26	22	-	8,000	-	3	91.50	-
South Carolina	32	(D)	28	(D)	(D)	-	(D)	72.50	20.00
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	77	122	31	954	(D)	20,800	40	122.00	38.70
Texas	209	209	2,898	228	-	801,800	117	33.42	60.65
Utah	93	(D)	1,185	(D)	-	-	(D)	34.48	-
Vermont	61	73	20	710	59,008	-	32	24.50	47.21
Virginia	142	(D)	(D)	(D)	(D)	579,780	(D)	101.59	50.97
Washington	22	26	725	314	-	-	181	143.00	72.44
West Virginia	25	32	38	154	-	24,000	(D)	39.47	87.87
Wisconsin	139	174	329	125	(D)	-	(D)	66.55	174.38
Wyoming	69	151	36	1,913	-	-	68	25.33	35.01
Water Resources Regions									
Region 01 New England	424	586	784	2,050	(D)	173,015	152	31.54	49.83
Region 02 Mid-Atlantic	751	1,090	4,183	4,199	(D)	(D)	496	68.51	61.95
Region 03 South Atlantic-Gulf	388	651	2,669	1,162	(D)	(D)	220	51.30	57.91
Region 04 Great Lakes	577	819	3,538	3,180	(D)	1,568,915	281	33.72	44.66
Region 05 Ohio	471	653	2,544	2,420	(D)	835,380	203	21.19	53.91
Region 06 Tennessee	91	(D)	(D)	1,047	(D)	(D)	(D)	122.00	57.15
Region 07 Upper Mississippi	301	384	1,196	592	(D)	159,800	81	(D)	61.59
Region 08 Lower Mississippi	77	449	46,637	2,013	-	10,800	2,154	43.91	(D)
Region 09 Souris-Red-Rainy	1	(D)	(D)	-	-	-	(D)	(D)	-
Region 10 Missouri	631	832	11,626	9,029	(D)	(D)	1,581	105.28	38.45
Region 11 Arkansas-White-Red	255	308	4,717	2,856	-	768,000	200	10.42	52.65
Region 12 Texas-Gulf	197	197	2,498	129	-	33,800	99	33.43	80.00
Region 13 Rio Grande	53	53	-	988	-	45,000	42	-	32.00
Region 14 Upper Colorado	80	306	(D)	(D)	-	4,200	(D)	23.34	75.00
Region 15 Lower Colorado	117	237	(D)	3,774	-	-	151	-	50.00
Region 16 Great Basin	93	130	1,185	1,400	-	-	43	34.48	-
Region 17 Pacific Northwest	209	303	725	3,598	-	-	307	143.00	40.75
Region 18 California	24	24	16	16	-	-	4	137.50	115.00
Region 19 Alaska	13	13	10	(D)	-	-	4	(D)	122.00
Region 20 Hawaii	20	36	-	42	-	928,870	(D)	-	(D)

See footnote(s) at end of table.

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Table 12. **On-Farm Energy Expense for Pumping Irrigation Water by Water Source and Type of Energy: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Gasoline, ethanol, and blends - con.						
	Farms with energy expenses of -						
	$1 to $999	$1,000 to $1,999	$2,000 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $49,999	$50,000 or more
United States	3,826	590	217	34	28	65	13
Alabama	8	-	6	-	-	-	-
Alaska	13	-	-	-	-	-	-
Arizona	138	-	-	-	-	3	-
Arkansas	76	-	9	9	6	17	8
California	24	-	-	-	-	-	-
Colorado	18	183	-	-	-	1	-
Connecticut	49	2	15	-	-	-	-
Delaware	8	6	-	2	-	-	-
Florida	132	26	23	-	-	-	-
Georgia	79	7	-	-	-	-	-
Hawaii	10	4	6	-	-	-	-
Idaho	9	37	-	-	-	-	-
Illinois	75	-	5	-	2	-	-
Indiana	117	-	-	-	-	-	-
Iowa	78	5	2	-	-	-	-
Kansas	162	-	-	-	-	-	-
Kentucky	145	5	5	-	-	-	-
Louisiana	10	-	-	8	-	-	-
Maine	94	-	-	-	-	-	-
Maryland	92	8	-	3	-	-	-
Massachusetts	138	14	-	-	-	-	-
Michigan	147	48	-	-	2	-	-
Minnesota	13	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	2
Missouri	238	5	1	3	7	-	-
Montana	97	-	-	-	-	-	-
Nebraska	100	-	-	-	1	42	-
Nevada	-	-	-	-	-	-	-
New Hampshire	72	2	9	-	-	-	-
New Jersey	52	5	18	4	-	-	-
New Mexico	44	9	44	-	-	-	-
New York	188	42	19	-	4	-	-
North Carolina	67	7	7	-	-	-	-
North Dakota	-	-	-	-	-	-	-
Ohio	123	18	13	2	-	-	-
Oklahoma	59	-	-	-	-	2	-
Oregon	-	-	-	-	-	-	-
Pennsylvania	390	65	5	-	-	-	-
Rhode Island	26	-	-	-	-	-	-
South Carolina	19	13	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-
Tennessee	72	-	4	-	1	-	-
Texas	198	10	-	-	1	-	-
Utah	56	37	-	-	-	-	-
Vermont	48	13	-	-	-	-	-
Virginia	123	7	8	-	4	-	-
Washington	16	-	-	3	-	-	3
West Virginia	13	7	5	-	-	-	-
Wisconsin	134	5	-	-	-	-	-
Wyoming	56	-	13	-	-	-	-
Water Resources Regions							
Region 01 New England	382	18	24	-	-	-	-
Region 02 Mid-Atlantic	595	102	37	9	8	-	-
Region 03 South Atlantic-Gulf	309	46	33	-	-	-	-
Region 04 Great Lakes	458	99	18	-	2	-	-
Region 05 Ohio	426	23	18	2	2	-	-
Region 06 Tennessee	76	7	7	-	1	-	-
Region 07 Upper Mississippi	284	10	7	-	-	-	-
Region 08 Lower Mississippi	16	2	10	9	13	17	10
Region 09 Souris-Red-Rainy	1	-	-	-	-	-	-
Region 10 Missouri	388	186	13	-	1	43	-
Region 11 Arkansas-White-Red	238	3	-	11	1	2	-
Region 12 Texas-Gulf	190	7	-	-	-	-	-
Region 13 Rio Grande	44	9	-	-	-	-	-
Region 14 Upper Colorado	36	-	44	-	-	-	-
Region 15 Lower Colorado	114	-	-	-	-	3	-
Region 16 Great Basin	56	37	-	-	-	-	-
Region 17 Pacific Northwest	166	37	-	3	-	-	3
Region 18 California	24	-	-	-	-	-	-
Region 19 Alaska	13	-	-	-	-	-	-
Region 20 Hawaii	10	4	6	-	-	-	-

[1] Energy expenses for solar-powered pumps are not included.
[2] Average expenses are calculated only from records with one source of water and with no area under protection.
[3] Average expense per 10,000 square feet is for operations with only horticulture under protection.

Table 13. **Solar Pumps and Other Pumps Without Direct Energy Expense: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms [1]	Pumps powered [1]	Total acres irrigated [1]	Solar pumps and other pumps without direct energy expense					
				Pumped well water only			Pumped surface water only		
				Farms	Pumps powered	Acres irrigated	Farms	Pumps powered	Acres irrigated
United States	1,592	2,031	28,104	698	1,086	16,476	847	893	5,104
Water Resources Regions									
Region 01 New England	3	3	18	-	-	-	3	3	18
Region 02 Mid-Atlantic	6	6	10	6	6	10	-	-	-
Region 03 South Atlantic-Gulf	162	330	2,514	162	330	2,514	-	-	-
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-
Region 05 Ohio	637	715	17,033	157	235	7,628	466	466	3,105
Region 06 Tennessee	189	189	1,506	-	-	-	189	189	1,506
Region 07 Upper Mississippi	24	41	15	24	41	15	-	-	-
Region 08 Lower Mississippi	9	9	9	9	9	9	-	-	-
Region 09 Souris-Red-Rainy	20	26	470	11	17	343	-	-	-
Region 10 Missouri	7	7	7	7	7	7	-	-	-
Region 11 Arkansas-White-Red	11	11	4	-	-	-	11	11	4
Region 12 Texas-Gulf	20	24	2,316	16	16	2,240	4	8	76
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	10	10	(Z)	10	10	(Z)	-	-	-
Region 15 Lower Colorado	22	27	76	6	6	60	16	21	16
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-
Region 19 Alaska	34	34	56	25	25	11	9	9	45
Region 20 Hawaii	17	19	(D)	7	9	(D)	10	10	(D)

[1] Rows may not add across. Sum of sources may not add to totals in the first three columns.

Table 14. **Expenses for Irrigation Water from Off-Farm Suppliers: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms irrigating with off-farm water	Farms reporting cost for off-farm water	Total cost ($1,000)	Average cost per acre [1] (dollars)	Average cost per acre-foot [1] (dollars)	Farms by average cost per acre-foot [1]				
						$1 to $9	$10 to $19	$20 to $29	$30 to $59	$60 or more
		Farms reporting cost for off-farm water								
United States	102,197	73,414	764,367	74.62	32.95	11,153	10,671	7,696	9,692	27,439
Alabama	238	171	681	129.81	407.61	-	-	-	4	88
Alaska	55	30	82	61.33	131.43	-	-	-	3	4
Arizona	2,673	1,832	63,322	132.39	29.43	380	396	209	224	535
Arkansas	294	165	667	41.72	27.52	28	-	-	-	79
California	26,190	23,440	480,932	132.51	45.59	1,875	2,634	2,670	2,343	13,300
Colorado	9,165	6,006	17,796	29.83	16.96	2,154	1,701	714	567	809
Connecticut	139	81	251	68.29	155.41	-	-	-	-	18
Delaware	40	32	131	200.00	200.00	-	-	-	-	2
Florida	539	222	1,171	61.78	64.72	-	-	11	8	71
Georgia	230	120	77	41.63	41.63	-	-	-	43	-
Hawaii	1,715	1,292	7,362	449.56	151.45	9	6	16	1	853
Idaho	11,253	6,323	35,326	31.80	17.65	1,625	891	447	1,104	2,204
Illinois	201	178	337	112.58	115.85	-	-	-	12	37
Indiana	278	207	139	51.08	107.57	-	-	-	3	50
Iowa	224	191	461	72.19	78.76	-	-	-	2	53
Kansas	467	294	1,119	36.21	47.16	-	-	20	113	70
Kentucky	624	513	886	688.27	1,258.07	2	-	13	14	157
Louisiana	356	225	531	62.17	70.53	3	-	6	11	109
Maine	234	163	262	-	-	-	-	-	-	-
Maryland	127	55	329	326.21	566.47	-	3	-	-	23
Massachusetts	333	254	783	392.28	435.19	-	-	-	-	50
Michigan	400	275	1,280	60.79	198.20	-	-	6	-	58
Minnesota	179	120	2,502	8.85	9.83	16	-	-	14	12
Mississippi	196	128	34	31.42	58.35	-	-	-	71	13
Missouri	333	217	309	310.32	192.61	-	-	5	-	29
Montana	5,642	3,033	11,755	13.89	10.98	935	713	394	315	626
Nebraska	2,299	1,726	18,078	42.91	42.19	28	72	328	450	780
Nevada	1,129	693	2,869	28.10	13.60	178	240	70	119	86
New Hampshire	120	88	41	69.01	204.17	-	-	-	-	10
New Jersey	190	137	389	226.33	226.33	-	-	-	-	28
New Mexico	4,550	2,758	4,583	49.99	41.46	561	330	305	620	913
New York	499	309	602	99.01	406.72	6	-	-	14	60
North Carolina	411	309	230	47.36	63.70	-	15	-	-	36
North Dakota	155	89	814	29.94	38.85	6	19	6	20	26
Ohio	434	342	585	229.70	606.02	-	4	10	9	84
Oklahoma	251	176	334	7.47	8.76	2	-	32	-	51
Oregon	6,730	3,747	20,194	41.79	20.18	449	1,172	292	450	1,172
Pennsylvania	591	519	432	277.47	638.83	-	1	-	-	39
Rhode Island	79	75	80	819.17	819.17	-	-	-	4	14
South Carolina	229	97	151	42.71	53.18	2	-	2	2	52
South Dakota	453	330	1,285	22.58	16.80	11	125	100	27	15
Tennessee	354	271	529	132.06	210.39	-	-	-	5	61
Texas	2,919	2,503	14,215	46.84	31.05	342	239	155	357	1,133
Utah	8,465	6,034	14,305	26.72	13.34	1,240	1,193	1,144	983	1,361
Vermont	163	114	91	80.00	80.00	-	-	-	-	16
Virginia	241	170	124	30.00	30.00	-	-	-	7	-
Washington	5,707	4,666	47,545	71.35	32.01	255	370	388	1,508	1,991
West Virginia	102	94	593	95.00	123.50	-	3	-	-	7
Wisconsin	247	180	344	61.69	34.10	11	-	-	3	36
Wyoming	3,754	2,420	7,428	13.08	8.14	1,035	544	353	262	218
Water Resources Regions										
Region 01 New England	974	714	1,447	203.76	346.40	-	-	-	4	100
Region 02 Mid-Atlantic	1,099	787	1,266	232.97	305.47	6	4	-	6	105
Region 03 South Atlantic-Gulf	1,706	956	2,348	58.62	65.42	2	15	13	131	225
Region 04 Great Lakes	1,022	694	2,089	76.56	295.89	-	-	16	8	130
Region 05 Ohio	1,636	1,357	2,484	431.79	770.58	-	7	13	23	311
Region 06 Tennessee	377	281	301	157.06	325.81	2	-	-	9	50
Region 07 Upper Mississippi	697	534	1,900	46.58	35.25	14	-	-	32	107
Region 08 Lower Mississippi	547	348	963	63.25	43.30	20	-	6	11	192
Region 09 Souris-Red-Rainy	80	48	1,789	9.74	11.87	19	-	-	-	11
Region 10 Missouri	12,943	8,081	47,602	24.81	18.53	1,783	1,919	1,427	1,120	1,424
Region 11 Arkansas-White-Red	2,206	1,315	2,725	16.17	14.01	270	298	49	10	464
Region 12 Texas-Gulf	2,274	2,005	12,634	44.69	29.11	342	220	155	297	738
Region 13 Rio Grande	4,753	3,013	6,159	42.17	37.75	591	383	307	610	1,106
Region 14 Upper Colorado	8,447	5,928	10,063	18.54	8.87	2,593	1,183	654	819	626
Region 15 Lower Colorado	3,163	2,169	63,692	129.54	29.14	424	456	209	245	747
Region 16 Great Basin	7,236	4,766	13,394	26.89	14.45	788	975	924	821	1,160
Region 17 Pacific Northwest	24,673	15,486	102,486	45.14	23.26	2,405	2,551	1,216	3,099	5,779
Region 18 California	26,594	23,610	483,579	131.24	45.36	1,885	2,654	2,691	2,443	13,307
Region 19 Alaska	55	30	82	61.33	131.43	-	-	-	3	4
Region 20 Hawaii	1,715	1,292	7,362	449.56	151.45	9	6	16	1	853

[1] Average cost per acre and average cost per acre-foot do not include farms with off-farm water costs for irrigating square feet under protection.

Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Expenses (all types) during survey year										
						Farms with expenses of -					
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average expenditure per affected acre (dollars)	Average per farm (dollars)	$1 to $999	$1,000 to $4,999	$5,000 to $14,999	$15,000 to $39,999	$40,000 to $74,999	$75,000 or more
United States	88,769	17,146,642	2,637,920	154	29,717	29,296	22,014	11,881	10,861	5,586	9,131
Alabama	503	36,688	13,603	371	27,043	189	138	76	41	17	42
Alaska	60	110	58	532	975	27	33	-	-	-	-
Arizona	1,242	352,034	53,331	151	42,939	533	148	139	89	89	244
Arkansas	1,721	1,061,096	69,560	66	40,418	208	247	310	387	288	281
California	17,497	2,875,778	600,027	209	34,293	5,890	4,190	1,809	3,246	963	1,399
Colorado	4,868	613,367	83,486	136	17,150	1,981	1,328	723	256	86	494
Connecticut	280	1,821	1,409	774	5,032	104	100	49	25	2	-
Delaware	200	22,658	12,228	540	61,140	34	19	33	19	27	68
Florida	3,086	365,152	73,107	200	23,690	1,205	1,062	339	174	131	175
Georgia	1,212	301,891	59,867	198	49,396	147	397	242	112	89	225
Hawaii	620	21,176	9,045	427	14,590	366	141	63	32	14	4
Idaho	5,536	1,000,561	130,308	130	23,538	1,872	1,609	608	784	252	411
Illinois	730	183,273	53,486	292	73,269	211	115	114	51	56	183
Indiana	694	142,100	53,014	373	76,389	135	127	74	63	61	234
Iowa	424	42,587	12,454	292	29,373	137	116	50	31	30	60
Kansas	2,370	1,049,841	134,489	128	56,747	237	321	395	517	287	613
Kentucky	422	15,879	4,981	314	11,804	212	121	53	12	6	18
Louisiana	675	207,323	30,385	147	45,015	121	159	126	148	59	62
Maine	214	3,634	1,743	480	8,145	124	33	35	14	2	6
Maryland	385	27,311	13,421	491	34,860	121	67	43	57	48	49
Massachusetts	512	9,010	6,952	772	13,578	217	135	37	99	6	18
Michigan	1,619	152,026	64,643	425	39,928	570	326	165	124	203	231
Minnesota	874	109,143	32,270	296	36,922	221	197	138	69	107	142
Mississippi	1,060	772,252	54,392	70	51,314	99	210	223	231	119	178
Missouri	1,043	281,249	29,909	106	28,676	245	234	199	192	68	105
Montana	2,459	594,758	35,776	60	14,549	826	743	446	242	68	134
Nebraska	6,580	2,120,773	375,862	177	57,122	424	1,193	982	1,216	980	1,785
Nevada	675	194,811	16,022	82	23,736	89	254	114	123	37	58
New Hampshire	156	2,327	720	309	4,615	107	32	4	5	8	-
New Jersey	458	19,561	4,936	252	10,778	155	157	64	40	29	13
New Mexico	2,505	263,707	36,072	137	14,400	735	1,069	301	202	79	119
New York	649	11,988	4,048	338	6,238	320	206	47	40	27	9
North Carolina	1,014	43,943	10,947	249	10,795	511	259	108	86	7	43
North Dakota	219	66,135	8,072	122	36,857	45	51	39	35	3	46
Ohio	539	14,222	3,822	269	7,091	249	142	80	52	9	7
Oklahoma	639	158,631	18,786	118	29,400	157	184	59	103	63	73
Oregon	4,464	396,377	54,036	136	12,105	2,014	995	782	317	216	140
Pennsylvania	1,050	7,533	2,517	334	2,397	632	288	103	24	2	1
Rhode Island	112	1,948	658	338	5,879	59	16	18	19	-	-
South Carolina	493	33,506	37,516	1,120	76,097	141	169	56	37	40	50
South Dakota	350	93,938	21,772	232	62,205	52	59	74	41	22	102
Tennessee	449	58,197	21,559	370	48,015	190	83	54	37	19	66
Texas	5,922	1,884,607	182,569	97	30,829	1,532	1,433	1,077	734	476	670
Utah	3,867	327,110	31,580	97	8,166	1,984	1,044	410	188	151	90
Vermont	205	805	400	497	1,951	127	52	16	10	-	-
Virginia	517	19,354	5,036	260	9,741	241	186	41	12	16	21
Washington	4,990	679,100	99,516	147	19,943	2,474	1,288	440	378	180	230
West Virginia	109	444	154	347	1,414	87	15	4	3	-	-
Wisconsin	987	167,565	43,688	261	44,263	313	198	143	86	87	160
Wyoming	1,514	337,342	23,687	70	15,645	626	325	376	58	57	72
Water Resources Regions											
Region 01 New England	1,326	18,893	11,557	612	8,716	646	325	151	162	18	24
Region 02 Mid-Atlantic	2,717	100,774	40,070	398	14,748	1,219	734	284	177	147	156
Region 03 South Atlantic-Gulf	6,525	793,595	199,406	251	30,560	2,227	2,143	828	458	334	535
Region 04 Great Lakes	2,709	224,473	89,657	399	33,096	1,024	633	264	208	242	338
Region 05 Ohio	1,571	127,768	38,723	303	24,648	716	341	185	99	45	185
Region 06 Tennessee	377	26,017	8,341	321	22,124	198	65	50	24	12	28
Region 07 Upper Mississippi	2,668	459,787	134,387	292	50,370	764	582	390	202	254	476
Region 08 Lower Mississippi	3,290	2,002,232	166,520	83	50,614	296	518	685	807	438	546
Region 09 Souris-Red-Rainy	203	44,473	4,906	110	24,166	48	33	42	42	15	23
Region 10 Missouri	13,308	3,709,767	553,823	149	41,616	2,427	2,801	2,200	2,035	1,181	2,664
Region 11 Arkansas-White-Red	4,006	1,891,426	217,654	115	54,332	679	603	633	646	476	969
Region 12 Texas-Gulf	4,647	1,189,810	110,753	93	23,833	1,136	1,302	950	474	383	402
Region 13 Rio Grande	2,782	263,392	43,223	164	15,537	867	1,112	276	279	101	147
Region 14 Upper Colorado	4,025	402,411	24,499	61	6,087	1,837	1,341	558	113	150	26
Region 15 Lower Colorado	1,374	376,373	56,318	150	40,989	562	190	142	142	89	249
Region 16 Great Basin	3,709	471,846	37,794	80	10,190	2,032	774	434	244	82	143
Region 17 Pacific Northwest	15,237	2,118,704	289,369	137	18,991	6,317	4,132	1,916	1,446	609	817
Region 18 California	17,615	2,903,615	601,817	207	34,165	5,908	4,211	1,830	3,271	996	1,399
Region 19 Alaska	60	110	58	532	975	27	33	-	-	-	-
Region 20 Hawaii	620	21,176	9,045	427	14,590	366	141	63	32	14	4

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Expenses (all types) during survey year - con.							
	Primary purpose of expenditures							
	New expansion		Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	2,520,764	883,458,352	2,702,388	521,930,487	927,091	118,751,924	10,996,399	1,113,778,981
Alabama	17,728	11,214,508	736	127,300	532	231,800	17,692	2,029,105
Alaska	24	17,600	4	(D)	3	(D)	79	38,802
Arizona	50,659	11,714,005	99,796	12,212,892	10,038	1,125,726	191,541	28,278,200
Arkansas	137,971	17,892,900	190,875	17,000,952	139,134	7,042,300	593,116	27,623,760
California	535,911	218,252,717	526,159	135,555,755	204,229	44,876,415	1,609,479	201,341,853
Colorado	40,046	22,397,409	152,418	22,538,823	19,459	1,456,200	401,444	37,093,989
Connecticut	357	348,257	(D)	(D)	(D)	(D)	1,346	569,595
Delaware	11,489	7,438,568	429	132,332	3,304	1,069,573	7,436	3,587,607
Florida	37,327	30,158,792	30,005	11,056,655	1,360	2,191,181	296,460	29,700,248
Georgia	107,212	35,544,332	70,269	6,445,380	12,710	3,172,500	111,700	14,705,220
Hawaii	2,097	4,745,220	767	953,372	6	6,000	18,306	3,340,902
Idaho	70,981	27,921,164	154,703	37,793,630	73,497	9,131,870	701,380	55,460,970
Illinois	58,431	17,196,798	11,659	948,150	10,996	1,370,518	102,187	33,970,573
Indiana	79,170	45,171,850	8,611	2,315,071	6,789	570,980	47,530	4,956,049
Iowa	20,473	9,635,583	680	318,500	1,388	138,000	20,046	2,361,865
Kansas	129,320	26,596,876	157,655	11,970,693	18,982	446,100	743,884	95,475,645
Kentucky	7,076	3,034,772	1,659	219,200	327	70,280	6,817	1,657,235
Louisiana	55,040	11,360,919	28,110	2,756,300	7,225	474,000	116,948	15,793,578
Maine	675	964,596	24	(D)	-	-	2,935	(D)
Maryland	7,945	6,117,612	1,311	724,200	1,657	66,500	16,398	6,512,975
Massachusetts	849	1,041,449	3,674	1,367,677	1,522	245,200	2,965	4,297,438
Michigan	69,424	49,755,396	16,244	2,818,400	9,729	2,424,378	56,629	9,645,232
Minnesota	29,886	17,046,188	3,720	621,191	10,399	2,117,286	65,138	12,485,353
Mississippi	142,298	26,222,817	55,366	9,090,760	23,256	1,386,682	551,332	17,692,236
Missouri	59,809	14,808,435	21,102	3,142,419	10,079	1,062,876	190,259	10,895,440
Montana	47,289	6,197,542	101,382	15,342,396	15,356	4,062,028	430,731	10,174,361
Nebraska	181,046	73,384,259	408,899	115,337,058	100,070	7,890,000	1,430,758	179,250,229
Nevada	20,988	3,246,714	22,847	3,218,084	3,080	47,500	147,896	9,509,836
New Hampshire	1,864	531,266	28	(D)	(D)	(D)	(D)	(D)
New Jersey	1,896	1,265,772	2,220	1,535,000	5,136	558,182	10,309	1,577,447
New Mexico	19,076	7,645,270	15,413	4,612,828	8,953	2,733,520	220,265	21,080,351
New York	2,829	2,207,692	(D)	243,600	(D)	70,000	8,363	1,526,994
North Carolina	16,053	6,704,668	3,547	666,458	2,000	475,000	22,343	3,100,409
North Dakota	10,380	2,654,864	7,398	1,793,400	5,767	665,770	42,590	2,957,647
Ohio	5,057	2,308,322	183	54,024	1,085	46,000	7,897	1,413,932
Oklahoma	25,895	6,136,654	41,815	3,379,633	7,781	1,021,820	83,140	8,248,209
Oregon	35,579	10,964,260	60,280	18,810,048	26,320	4,307,550	274,198	19,953,888
Pennsylvania	1,432	896,461	898	327,266	279	47,400	4,924	1,245,420
Rhode Island	32	11,200	114	73,520	-	-	1,802	573,715
South Carolina	11,432	6,796,854	3,711	1,002,150	2,190	221,400	16,173	29,495,452
South Dakota	33,105	12,909,154	4,788	2,131,672	1,044	74,000	55,001	6,656,958
Tennessee	30,785	14,755,146	(D)	(D)	(D)	(D)	22,805	5,895,681
Texas	287,624	48,335,940	312,316	30,045,639	95,022	4,435,575	1,189,645	99,751,820
Utah	24,756	7,592,966	37,141	7,199,847	10,424	3,772,900	254,789	13,014,114
Vermont	277	225,350	(D)	10,300	-	-	(D)	164,331
Virginia	6,700	3,090,445	731	330,412	343	297,360	11,580	1,317,759
Washington	39,815	23,130,547	69,468	17,039,037	32,893	4,565,781	536,924	54,780,209
West Virginia	175	68,150	9	30,150	-	-	260	55,841
Wisconsin	36,605	23,470,093	16,246	5,517,782	15,718	1,322,173	98,996	13,377,886
Wyoming	7,876	2,330,000	52,229	11,728,741	25,915	1,391,400	251,322	8,236,413
Water Resources Regions								
Region 01 New England	3,882	2,959,918	3,927	1,925,647	1,813	312,600	9,271	6,358,646
Region 02 Mid-Atlantic	28,653	19,819,885	5,252	3,134,198	11,371	2,093,155	55,498	15,022,271
Region 03 South Atlantic-Gulf	200,337	91,995,185	107,791	19,400,697	20,192	6,351,941	465,275	81,658,444
Region 04 Great Lakes	102,014	68,389,036	20,440	3,090,481	12,079	3,076,878	89,940	15,101,087
Region 05 Ohio	62,596	29,179,904	11,015	2,979,844	5,028	361,608	49,129	6,201,425
Region 06 Tennessee	11,502	6,524,934	1,072	(D)	8	(D)	13,435	1,548,275
Region 07 Upper Mississippi	129,259	64,905,102	27,855	7,224,433	36,959	4,403,679	265,714	57,853,672
Region 08 Lower Mississippi	368,135	67,658,962	227,793	26,455,494	145,330	8,580,818	1,260,974	63,824,507
Region 09 Souris-Red-Rainy	7,619	2,398,522	2,945	232,510	3,230	433,220	30,679	1,841,516
Region 10 Missouri	312,854	116,749,182	679,161	159,123,710	161,888	11,709,568	2,555,864	266,240,638
Region 11 Arkansas-White-Red	284,795	67,819,190	388,174	31,440,540	90,363	4,382,910	1,128,094	114,011,424
Region 12 Texas-Gulf	194,962	26,322,428	173,218	18,778,787	54,032	2,416,605	767,598	63,235,033
Region 13 Rio Grande	18,246	5,442,919	42,790	7,148,776	12,266	2,930,400	190,090	27,700,602
Region 14 Upper Colorado	15,852	4,133,886	36,490	8,466,374	12,660	4,102,400	337,409	7,796,606
Region 15 Lower Colorado	50,955	13,296,405	119,466	13,566,492	11,556	1,137,726	194,396	28,317,800
Region 16 Great Basin	44,189	7,426,680	53,680	5,083,424	11,008	2,934,400	362,969	22,349,295
Region 17 Pacific Northwest	143,433	65,353,677	279,249	77,888,415	132,122	17,975,201	1,563,900	128,151,533
Region 18 California	539,360	218,319,717	521,299	134,774,055	205,177	45,536,415	1,637,779	203,186,503
Region 19 Alaska	24	17,600	4	(D)	3	(D)	79	38,802
Region 20 Hawaii	2,097	4,745,220	767	953,372	6	6,000	18,306	3,340,902

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Expenses (all types) during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	3,077	482,292	1,606	351,644	7,312	2,069,880	100,424	14,242,826
Alabama	11	136	-	-	52	6,249	551	30,303
Alaska	-	-	3	3	-	-	70	107
Arizona	35	13,185	31	3,127	36	43,135	1,695	292,587
Arkansas	105	33,473	61	25,780	241	95,387	2,173	906,456
California	626	61,317	41	29,503	1,367	258,505	20,838	2,526,453
Colorado	135	29,374	126	28,782	117	17,678	6,359	537,533
Connecticut	50	393	-	-	8	8	258	1,420
Delaware	23	668	5	530	62	7,480	212	13,980
Florida	34	6,866	17	17	222	49,937	3,483	308,332
Georgia	85	7,087	36	3,534	209	30,743	1,384	260,527
Hawaii	12	92	-	-	12	132	676	20,952
Idaho	161	29,644	81	36,601	415	114,065	5,739	820,251
Illinois	2	(D)	6	(D)	121	25,048	866	156,255
Indiana	16	2,780	6	6	145	25,204	889	114,110
Iowa	4	(D)	9	(D)	56	9,258	467	32,994
Kansas	45	17,950	150	31,460	660	181,663	2,497	818,768
Kentucky	28	(D)	1	(D)	15	4,680	457	10,986
Louisiana	19	2,745	12	4,128	38	8,026	898	192,424
Maine	2	(D)	8	(D)	5	850	232	2,724
Maryland	5	310	-	-	40	2,968	436	24,033
Massachusetts	58	2,391	7	14	83	552	629	6,053
Michigan	24	1,222	10	3,647	187	23,045	1,834	124,112
Minnesota	4	(D)	1	(D)	174	22,128	888	86,255
Mississippi	87	36,539	39	5,832	150	137,267	1,263	592,614
Missouri	26	6,757	29	5,680	160	27,442	1,210	241,370
Montana	44	7,902	94	17,312	162	42,294	2,605	527,250
Nebraska	379	74,853	266	80,248	810	322,512	7,094	1,643,160
Nevada	15	3,782	6	3,800	30	10,366	765	176,863
New Hampshire	9	54	-	-	9	9	148	2,264
New Jersey	10	852	1	(D)	19	(D)	497	18,429
New Mexico	136	(D)	95	2,930	40	(D)	2,744	134,989
New York	2	(D)	2	(D)	144	1,609	640	9,679
North Carolina	22	915	9	3,375	23	572	1,141	39,081
North Dakota	15	2,715	3	600	34	6,386	224	56,434
Ohio	4	(D)	2	(D)	27	1,440	596	12,702
Oklahoma	34	3,780	5	402	92	16,752	686	137,697
Oregon	111	5,385	53	4,762	182	28,891	5,087	357,339
Pennsylvania	22	94	25	500	19	226	1,097	6,713
Rhode Island	3	(D)	3	(D)	-	-	122	1,867
South Carolina	18	3,555	24	24	52	4,835	622	25,092
South Dakota	18	4,857	3	450	116	21,587	314	67,044
Tennessee	6	(D)	22	3,641	62	(D)	500	42,003
Texas	209	54,154	127	22,380	613	298,240	6,621	1,509,833
Utah	151	13,245	68	8,970	54	8,629	3,939	296,266
Vermont	-	-	7	210	-	-	214	595
Virginia	21	(D)	7	140	1	(D)	539	18,969
Washington	190	27,952	86	13,338	83	71,450	5,346	566,360
West Virginia	-	-	5	5	-	-	110	439
Wisconsin	23	3,464	6	460	115	12,000	1,190	151,641
Wyoming	38	6,622	8	6,700	50	5,502	1,579	318,518
Water Resources Regions								
Region 01 New England	122	2,911	18	82	105	1,419	1,457	14,481
Region 02 Mid-Atlantic	76	2,245	40	1,620	165	12,460	2,883	84,449
Region 03 South Atlantic-Gulf	177	18,608	82	8,773	550	88,146	7,519	678,068
Region 04 Great Lakes	30	2,442	21	4,037	378	34,971	3,019	183,023
Region 05 Ohio	41	2,842	30	499	171	24,743	1,766	99,684
Region 06 Tennessee	7	91	9	53	32	5,768	414	20,105
Region 07 Upper Mississippi	25	2,924	10	1,935	392	53,564	3,042	401,364
Region 08 Lower Mississippi	230	77,947	116	31,144	513	265,753	4,082	1,627,388
Region 09 Souris-Red-Rainy	9	1,565	-	-	36	6,769	211	36,139
Region 10 Missouri	520	134,441	527	128,950	1,425	436,651	14,335	3,009,725
Region 11 Arkansas-White-Red	141	29,988	126	41,435	857	313,521	4,404	1,506,482
Region 12 Texas-Gulf	180	36,923	55	4,620	442	168,607	5,306	979,660
Region 13 Rio Grande	195	(D)	102	3,770	38	(D)	3,184	236,660
Region 14 Upper Colorado	103	(D)	99	15,558	50	(D)	4,849	268,687
Region 15 Lower Colorado	40	15,685	31	3,127	36	43,135	1,779	314,426
Region 16 Great Basin	86	13,727	58	11,754	72	19,255	3,917	427,110
Region 17 Pacific Northwest	462	62,981	223	64,181	671	213,416	16,495	1,778,126
Region 18 California	621	58,817	56	30,103	1,367	258,505	21,016	2,556,190
Region 19 Alaska	-	-	3	3	-	-	70	107
Region 20 Hawaii	12	92	-	-	12	132	676	20,952

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Purchase of new or replacement equipment and machinery during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	79,082	10,776,315	1,858,815	23,505	29,293	25,958	10,472	6,637	6,722
Alabama	463	28,471	11,380	24,580	194	161	52	22	34
Alaska	60	97	45	750	27	33	-	-	-
Arizona	778	182,137	26,464	34,016	247	212	170	82	67
Arkansas	1,396	705,877	32,787	23,487	202	407	409	266	112
California	15,562	1,641,101	355,398	22,838	6,092	5,030	2,425	1,136	879
Colorado	4,158	340,537	65,841	15,835	2,366	885	343	96	468
Connecticut	258	1,551	1,091	4,230	104	120	22	12	-
Delaware	195	14,117	10,677	54,756	44	41	16	35	59
Florida	2,938	238,305	44,044	14,991	1,199	1,249	257	129	104
Georgia	1,110	158,651	39,463	35,552	207	457	143	126	177
Hawaii	580	16,744	3,778	6,513	352	160	48	16	4
Idaho	4,677	705,330	100,908	21,575	1,560	1,901	617	259	340
Illinois	683	119,273	47,483	69,522	204	186	54	87	152
Indiana	631	82,145	45,081	71,443	153	148	41	76	213
Iowa	404	29,262	9,750	24,134	137	154	34	37	42
Kansas	2,143	671,221	109,508	51,100	229	511	437	530	436
Kentucky	390	10,209	4,240	10,871	208	132	26	6	18
Louisiana	541	114,905	18,168	33,582	126	214	129	38	34
Maine	213	2,576	1,030	4,838	141	51	17	2	2
Maryland	366	19,173	11,664	31,869	139	94	27	57	49
Massachusetts	473	3,604	1,345	2,843	224	209	34	6	-
Michigan	1,487	93,337	50,310	33,833	556	377	158	213	183
Minnesota	796	75,870	26,791	33,657	236	224	104	106	126
Mississippi	892	619,751	21,397	23,988	95	349	275	106	67
Missouri	908	181,922	19,856	21,867	261	335	173	61	78
Montana	2,105	361,317	30,044	14,273	825	883	171	101	125
Nebraska	6,387	1,499,521	318,252	49,828	424	1,981	1,247	1,204	1,531
Nevada	411	86,882	9,263	22,538	74	153	74	74	36
New Hampshire	156	2,304	661	4,237	107	36	5	8	-
New Jersey	420	14,181	3,645	8,678	161	162	58	34	5
New Mexico	1,844	89,854	20,283	10,999	604	825	300	50	65
New York	599	9,452	2,903	4,847	371	160	31	33	4
North Carolina	948	28,755	8,005	8,444	505	322	69	15	37
North Dakota	192	44,041	7,037	36,650	40	61	44	8	39
Ohio	494	8,800	2,956	5,984	248	178	51	12	5
Oklahoma	606	106,703	14,644	24,165	160	232	79	83	52
Oregon	4,344	277,624	45,075	10,376	2,229	1,276	464	247	128
Pennsylvania	1,014	5,833	2,059	2,031	631	303	77	2	1
Rhode Island	109	1,896	614	5,637	59	28	17	5	-
South Carolina	459	20,022	33,768	73,568	128	220	25	49	37
South Dakota	325	65,261	17,637	54,268	46	81	73	42	83
Tennessee	416	33,711	16,570	39,832	186	110	47	21	52
Texas	5,223	1,147,360	112,529	21,545	1,540	1,830	847	602	404
Utah	3,248	225,519	23,070	7,103	1,868	998	127	190	65
Vermont	202	759	328	1,623	135	60	7	-	-
Virginia	478	16,248	3,928	8,218	232	189	28	14	15
Washington	4,819	407,849	78,574	16,305	2,558	1,504	354	192	211
West Virginia	99	404	101	1,016	84	12	3	-	-
Wisconsin	926	88,413	30,371	32,798	339	269	92	98	128
Wyoming	1,156	177,440	17,998	15,569	436	445	171	49	55
Water Resources Regions									
Region 01 New England	1,261	12,068	4,794	3,802	678	453	95	33	2
Region 02 Mid-Atlantic	2,566	73,373	33,365	13,003	1,249	806	218	163	130
Region 03 South Atlantic-Gulf	6,110	480,915	137,800	22,553	2,267	2,533	567	354	389
Region 04 Great Lakes	2,520	140,778	70,541	27,992	1,061	689	207	288	275
Region 05 Ohio	1,455	75,538	32,521	22,351	714	402	122	58	159
Region 06 Tennessee	343	20,486	7,334	21,381	194	83	28	12	26
Region 07 Upper Mississippi	2,465	276,755	109,148	44,279	807	742	235	273	408
Region 08 Lower Mississippi	2,678	1,402,022	85,255	31,835	291	871	867	393	256
Region 09 Souris-Red-Rainy	189	30,596	4,146	21,936	54	42	56	20	17
Region 10 Missouri	12,157	2,454,156	468,023	38,498	2,316	3,909	2,056	1,601	2,275
Region 11 Arkansas-White-Red	3,586	1,114,982	141,478	39,453	695	896	635	708	652
Region 12 Texas-Gulf	4,178	779,051	74,643	17,866	1,136	1,703	664	424	251
Region 13 Rio Grande	2,165	165,091	28,653	13,235	919	730	344	82	90
Region 14 Upper Colorado	3,012	187,734	17,790	5,906	1,763	900	170	153	26
Region 15 Lower Colorado	1,018	187,752	28,192	27,694	414	232	170	135	67
Region 16 Great Basin	2,753	255,960	22,672	8,235	1,696	737	143	81	96
Region 17 Pacific Northwest	14,301	1,431,462	231,081	16,158	6,532	4,968	1,412	674	715
Region 18 California	15,685	1,670,755	357,556	22,796	6,128	5,069	2,435	1,169	884
Region 19 Alaska	60	97	45	750	27	33	-	-	-
Region 20 Hawaii	580	16,744	3,778	6,513	352	160	48	16	4

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Purchase of new or replacement equipment and machinery during survey year - con.							
	Primary purpose of expenditures							
	New expansion		Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	1,196,553	559,917,321	1,211,143	381,681,002	508,166	85,138,478	7,860,453	832,078,289
Alabama	12,204	9,371,358	701	95,300	448	133,800	15,118	1,779,862
Alaska	20	15,600	-	-	3	600	74	28,802
Arizona	40,997	9,748,405	20,978	4,582,692	5,830	997,326	114,332	11,135,901
Arkansas	54,179	6,440,000	66,984	3,717,032	86,621	3,939,300	498,093	18,691,100
California	241,945	114,678,995	216,501	84,576,223	128,207	33,188,815	1,054,448	122,954,379
Colorado	15,756	16,443,249	44,900	16,134,877	4,434	527,000	275,447	32,736,287
Connecticut	126	193,753	(D)	(D)	(D)	(D)	1,315	526,595
Delaware	6,089	6,468,142	149	42,640	1,251	700,100	6,628	3,466,607
Florida	17,202	15,497,672	3,767	4,696,402	971	2,129,381	216,365	21,720,948
Georgia	30,276	19,447,591	32,959	4,327,200	6,710	2,830,000	88,706	12,858,420
Hawaii	251	224,570	761	773,372	6	6,000	15,726	2,773,582
Idaho	34,350	14,240,304	101,938	34,763,954	23,304	7,216,370	545,738	44,687,798
Illinois	28,827	13,944,558	4,535	586,050	5,992	875,518	79,919	32,077,343
Indiana	42,701	38,778,871	2,882	1,881,351	1,847	308,720	34,715	4,111,782
Iowa	10,250	7,366,420	610	303,500	1,002	119,500	17,400	1,960,725
Kansas	67,188	23,655,160	58,372	10,166,640	766	86,600	544,895	75,599,264
Kentucky	4,832	2,402,672	245	197,100	310	68,000	4,822	1,571,735
Louisiana	19,318	4,089,769	7,586	988,500	5,725	354,000	82,276	12,735,858
Maine	328	(D)	24	(D)	-	-	2,224	644,415
Maryland	4,419	5,252,157	276	208,900	266	5,000	14,212	6,197,875
Massachusetts	556	364,059	1,135	127,575	173	150,700	1,740	702,345
Michigan	38,850	38,429,508	7,714	2,141,200	5,389	1,940,590	41,384	7,798,468
Minnesota	20,526	13,457,477	1,687	538,596	5,729	2,009,786	47,928	10,784,943
Mississippi	65,242	8,169,682	20,136	2,037,800	18,650	554,000	515,723	10,635,886
Missouri	29,602	9,568,021	9,545	1,213,385	8,874	979,056	133,901	8,095,127
Montana	41,239	5,940,342	42,383	13,754,596	3,628	3,753,000	274,067	6,596,182
Nebraska	110,782	57,732,409	285,820	107,451,028	73,630	6,346,000	1,029,289	146,722,140
Nevada	9,102	2,319,728	6,089	2,244,084	-	-	71,691	4,699,506
New Hampshire	1,853	518,266	28	(D)	(D)	(D)	(D)	107,269
New Jersey	1,067	786,284	963	1,088,000	2,954	446,382	9,197	1,324,264
New Mexico	10,135	5,011,931	7,181	3,238,900	4,328	748,020	68,210	11,283,995
New York	1,402	1,346,742	72	241,200	700	70,000	7,278	1,245,494
North Carolina	8,101	4,654,260	1,199	523,496	1,675	465,000	17,780	2,362,309
North Dakota	6,360	2,525,864	1,457	1,608,400	2,455	631,270	33,769	2,271,357
Ohio	2,208	1,724,176	124	44,200	-	-	6,468	1,187,802
Oklahoma	11,049	3,829,528	18,261	2,775,352	3,780	1,016,000	73,613	7,023,160
Oregon	22,320	9,839,447	28,979	16,416,138	12,797	1,577,550	213,528	17,241,935
Pennsylvania	851	659,891	(D)	(D)	(D)	(D)	4,608	1,208,520
Rhode Island	28	(D)	78	(D)	-	-	1,790	567,715
South Carolina	4,421	3,745,104	(D)	(D)	(D)	(D)	12,560	28,970,418
South Dakota	17,547	10,414,210	(D)	(D)	(D)	(D)	43,871	5,141,358
Tennessee	13,092	11,096,625	1,739	560,200	-	-	18,880	4,913,081
Texas	79,950	16,934,062	133,336	21,123,906	62,233	3,435,265	871,841	71,035,352
Utah	17,761	5,944,256	16,671	6,144,781	3,686	3,260,000	187,401	7,720,613
Vermont	231	153,150	(D)	10,300	-	-	(D)	164,331
Virginia	5,708	2,249,045	160	180,512	295	281,500	10,085	1,216,987
Washington	20,361	15,831,037	19,585	13,871,354	8,695	2,920,000	359,208	45,951,561
West Virginia	172	62,150	-	-	-	-	232	38,441
Wisconsin	18,194	16,105,221	6,878	2,678,123	1,338	599,529	62,003	10,987,666
Wyoming	6,585	1,877,000	29,205	10,029,055	12,324	271,000	129,326	5,820,786
Water Resources Regions								
Region 01 New England	2,980	1,485,428	1,344	530,775	464	218,100	7,280	2,560,028
Region 02 Mid-Atlantic	17,328	16,153,846	1,537	1,722,106	5,745	1,550,382	48,763	13,938,916
Region 03 South Atlantic-Gulf	79,667	52,285,044	41,112	10,729,064	9,886	5,627,381	350,250	69,158,567
Region 04 Great Lakes	55,157	53,293,358	8,615	2,332,831	6,514	2,480,090	70,492	12,434,333
Region 05 Ohio	34,720	24,501,745	3,858	2,603,900	1,211	183,068	35,749	5,232,488
Region 06 Tennessee	7,607	5,730,406	1,000	159,796	8	5,800	11,871	1,437,675
Region 07 Upper Mississippi	69,006	49,893,798	12,960	3,892,589	12,792	3,067,535	181,997	52,293,816
Region 08 Lower Mississippi	149,861	28,307,551	77,260	6,452,460	87,334	4,560,616	1,087,567	45,934,417
Region 09 Souris-Red-Rainy	4,869	2,225,522	740	173,400	2,105	419,220	22,882	1,327,762
Region 10 Missouri	194,141	95,378,545	384,732	144,890,976	94,708	8,356,840	1,780,575	219,397,073
Region 11 Arkansas-White-Red	118,546	38,391,614	161,202	23,430,984	50,116	3,156,500	785,118	76,498,844
Region 12 Texas-Gulf	54,727	11,422,300	75,565	11,662,346	41,683	2,186,385	607,076	49,371,567
Region 13 Rio Grande	11,953	3,440,680	9,721	3,573,200	9,220	1,144,900	134,197	20,494,027
Region 14 Upper Colorado	10,036	2,819,436	15,720	6,597,384	2,750	3,143,000	159,228	5,230,162
Region 15 Lower Colorado	41,633	11,338,405	21,748	4,678,292	7,348	1,009,326	117,023	11,166,301
Region 16 Great Basin	19,688	5,025,984	15,710	3,204,358	2,910	2,490,000	217,652	11,951,869
Region 17 Pacific Northwest	79,569	43,297,494	161,052	69,696,646	44,808	11,983,920	1,146,033	106,103,031
Region 18 California	244,794	114,685,995	216,506	84,576,523	128,555	33,548,815	1,080,900	124,745,029
Region 19 Alaska	20	15,600	-	-	3	600	74	28,802
Region 20 Hawaii	251	224,570	761	773,372	6	6,000	15,726	2,773,582

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Purchase of new or replacement equipment and machinery during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	1,853	311,173	928	212,078	4,303	1,224,873	71,998	9,028,191
Alabama	9	96	-	-	39	5,402	415	22,973
Alaska	-	-	3	3	-	-	57	94
Arizona	17	6,688	-	-	23	28,000	738	147,449
Arkansas	30	10,806	41	23,240	123	67,367	1,202	604,464
California	133	39,173	26	11,233	521	137,633	14,882	1,453,062
Colorado	55	17,384	106	19,882	43	9,398	3,954	293,873
Connecticut	14	161	-	-	8	8	236	1,382
Delaware	14	(D)	2	(D)	34	4,560	145	8,818
Florida	14	37	17	17	153	25,817	2,754	212,434
Georgia	80	6,287	19	1,527	129	18,570	882	132,267
Hawaii	10	(D)	-	-	12	(D)	558	16,522
Idaho	104	12,995	72	26,501	314	80,261	4,187	585,573
Illinois	2	(D)	2	(D)	74	13,800	605	103,783
Indiana	16	2,780	-	-	101	18,200	514	61,165
Iowa	2	(D)	7	(D)	35	5,272	360	23,795
Kansas	44	17,620	72	10,210	470	113,586	1,557	529,805
Kentucky	14	105	-	-	11	1,380	365	8,724
Louisiana	6	(D)	2	(D)	20	3,224	513	108,613
Maine	-	-	8	(D)	2	(D)	203	1,844
Maryland	5	310	-	-	11	2,014	350	16,849
Massachusetts	2	(D)	7	(D)	8	(D)	456	3,410
Michigan	24	1,222	4	701	114	15,368	1,345	76,046
Minnesota	4	(D)	1	(D)	119	14,954	672	60,156
Mississippi	30	17,054	26	3,941	97	114,708	739	484,048
Missouri	4	1,990	21	4,925	69	17,126	814	157,881
Montana	44	7,902	22	10,764	100	27,384	1,939	315,267
Nebraska	351	55,897	98	57,400	657	246,188	5,281	1,140,036
Nevada	13	1,230	4	2,000	10	890	384	82,762
New Hampshire	9	54	-	-	9	9	138	2,241
New Jersey	10	852	1	(D)	17	(D)	392	13,189
New Mexico	90	5,066	51	2,534	13	2,878	1,690	79,376
New York	2	(D)	2	(D)	80	1,268	515	7,484
North Carolina	20	875	9	3,375	17	512	902	23,993
North Dakota	12	1,674	3	600	31	6,212	146	35,555
Ohio	4	20	-	-	9	700	481	8,080
Oklahoma	34	3,780	-	-	58	8,767	514	94,156
Oregon	108	4,485	23	2,122	89	17,250	4,124	253,767
Pennsylvania	13	58	25	500	19	226	957	5,049
Rhode Island	3	45	-	-	-	-	106	1,851
South Carolina	17	3,355	8	8	41	2,472	393	14,187
South Dakota	14	2,937	-	-	80	16,809	231	45,515
Tennessee	2	(D)	16	(D)	36	5,475	362	25,905
Texas	190	45,631	103	16,380	321	162,033	4,609	923,316
Utah	126	8,065	64	7,350	22	2,743	3,036	207,361
Vermont	-	-	7	210	-	-	195	549
Virginia	21	(D)	-	-	1	(D)	456	16,003
Washington	94	22,824	47	1,260	49	15,178	4,629	368,587
West Virginia	-	-	5	5	-	-	94	399
Wisconsin	14	2,584	4	180	67	7,118	841	78,531
Wyoming	29	4,486	-	-	47	2,952	1,080	170,002
Water Resources Regions								
Region 01 New England	28	(D)	15	(D)	27	781	1,191	10,865
Region 02 Mid-Atlantic	58	2,200	30	1,030	96	8,213	2,382	61,930
Region 03 South Atlantic-Gulf	147	10,699	56	6,757	375	49,102	5,532	414,357
Region 04 Great Lakes	28	1,702	15	1,091	219	23,756	2,258	114,229
Region 05 Ohio	27	2,814	17	73	106	14,233	1,305	58,418
Region 06 Tennessee	7	91	2	(D)	22	(D)	312	15,106
Region 07 Upper Mississippi	16	2,724	8	1,655	266	34,355	2,175	238,021
Region 08 Lower Mississippi	68	30,360	67	21,528	282	200,098	2,261	1,150,036
Region 09 Souris-Red-Rainy	6	524	-	-	30	5,111	153	24,961
Region 10 Missouri	466	101,552	194	78,224	1,094	330,437	10,403	1,943,943
Region 11 Arkansas-White-Red	117	19,530	75	22,943	443	146,863	2,951	925,646
Region 12 Texas-Gulf	166	35,081	55	4,620	263	110,243	3,694	629,107
Region 13 Rio Grande	91	5,136	58	3,374	15	7,848	2,001	148,733
Region 14 Upper Colorado	100	5,744	95	11,158	31	5,743	2,786	165,089
Region 15 Lower Colorado	17	6,688	-	-	23	28,000	978	153,064
Region 16 Great Basin	62	6,385	52	8,334	35	5,383	2,604	235,858
Region 17 Pacific Northwest	306	40,304	160	39,963	443	111,699	13,392	1,239,496
Region 18 California	133	39,173	26	11,233	521	137,633	15,005	1,482,716
Region 19 Alaska	-	-	3	3	-	-	57	94
Region 20 Hawaii	10	(D)	-	-	12	(D)	558	16,522

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	New well construction or deepening of wells during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	9,556	1,942,972	430,789	45,080	340	2,518	3,387	1,942	1,369
Alabama	47	2,654	807	17,165	1	25	12	8	1
Alaska	5	5	10	2,000	-	5	-	-	-
Arizona	225	30,895	16,229	72,127	19	-	31	147	28
Arkansas	531	133,630	13,875	26,129	-	89	260	164	18
California	2,192	453,438	168,519	76,879	38	849	671	98	536
Colorado	249	33,612	8,464	33,992	-	-	206	23	20
Connecticut	22	120	181	8,207	-	14	8	-	-
Delaware	74	6,193	1,067	14,420	-	27	41	4	2
Florida	210	23,849	8,293	39,492	22	75	48	28	37
Georgia	238	38,501	9,321	39,162	7	91	40	62	38
Hawaii	6	(D)	(D)	(D)	-	-	6	-	-
Idaho	397	76,279	14,189	35,741	-	19	312	33	33
Illinois	162	26,410	3,901	24,079	1	31	86	37	7
Indiana	224	30,453	5,997	26,773	6	57	84	61	16
Iowa	72	9,751	1,959	27,214	2	20	36	10	4
Kansas	462	133,104	20,278	43,892	-	150	128	96	88
Kentucky	17	795	169	9,941	-	13	2	2	-
Louisiana	138	39,138	3,076	22,293	3	41	57	30	7
Maine	20	265	176	8,824	-	19	-	1	-
Maryland	37	4,359	856	23,135	-	17	12	3	5
Massachusetts	76	525	377	4,964	63	-	5	8	-
Michigan	293	30,002	10,438	35,626	8	42	102	101	40
Minnesota	140	12,840	4,264	30,456	5	15	61	51	8
Mississippi	259	68,593	7,879	30,422	-	59	137	35	28
Missouri	261	43,886	4,698	18,001	-	139	98	17	7
Montana	-	-	-	-	-	-	-	-	-
Nebraska	1,002	269,607	40,746	40,664	-	73	449	351	129
Nevada	58	20,891	3,973	68,500	-	7	17	8	26
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	24	2,721	344	14,354	-	7	15	2	-
New Mexico	255	21,146	8,942	35,068	43	79	24	81	28
New York	27	384	(D)	(D)	12	10	5	-	-
North Carolina	56	4,357	1,077	19,225	-	15	34	6	1
North Dakota	15	4,154	540	36,000	-	3	6	4	2
Ohio	45	1,677	451	10,030	-	33	9	3	-
Oklahoma	106	18,321	3,095	29,199	12	25	31	29	9
Oregon	125	10,628	897	7,180	-	97	19	9	-
Pennsylvania	54	930	232	4,304	6	45	3	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	71	6,123	2,607	36,722	-	27	12	21	11
South Dakota	76	12,726	2,649	34,852	11	8	10	36	11
Tennessee	49	12,263	3,393	69,236	4	1	9	16	19
Texas	910	294,775	42,497	46,700	40	248	189	261	172
Utah	151	11,076	3,754	24,859	37	21	56	22	15
Vermont	11	38	58	5,255	-	8	3	-	-
Virginia	2	(D)	(D)	(D)	-	-	2	-	-
Washington	41	35,793	5,088	124,088	-	11	17	5	8
West Virginia	4	(D)	18	4,500	-	3	1	-	-
Wisconsin	105	14,591	4,751	45,248	-	-	27	63	15
Wyoming	12	1,290	375	31,250	-	-	6	6	-
Water Resources Regions									
Region 01 New England	126	918	742	5,891	63	41	13	9	-
Region 02 Mid-Atlantic	200	14,555	2,710	13,550	-	105	79	9	7
Region 03 South Atlantic-Gulf	667	76,529	22,903	34,338	30	265	158	122	92
Region 04 Great Lakes	428	42,745	13,567	31,700	25	62	159	139	43
Region 05 Ohio	193	20,279	3,490	18,084	16	96	45	24	12
Region 06 Tennessee	19	2,516	526	27,696	-	9	1	7	2
Region 07 Upper Mississippi	422	57,076	13,690	32,440	3	45	185	155	34
Region 08 Lower Mississippi	961	260,726	27,478	28,593	3	216	455	217	70
Region 09 Souris-Red-Rainy	14	(D)	354	25,258	-	3	9	-	2
Region 10 Missouri	1,372	332,212	50,122	36,532	11	228	525	459	149
Region 11 Arkansas-White-Red	987	272,490	53,793	54,502	12	112	470	153	240
Region 12 Texas-Gulf	721	195,203	21,320	29,571	40	260	129	249	43
Region 13 Rio Grande	246	26,288	7,375	29,980	43	67	30	77	29
Region 14 Upper Colorado	3	1,350	(D)	(D)	-	-	-	3	-
Region 15 Lower Colorado	225	30,895	16,229	72,127	19	-	31	147	28
Region 16 Great Basin	219	35,547	8,273	37,777	37	26	73	42	41
Region 17 Pacific Northwest	550	117,770	19,538	35,523	-	129	348	32	41
Region 18 California	2,192	453,438	168,519	76,879	38	849	671	98	536
Region 19 Alaska	5	5	10	2,000	-	5	-	-	-
Region 20 Hawaii	6	(D)	(D)	(D)	-	-	6	-	-

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	New well construction or deepening of wells during survey year - con.							
	Primary purpose of expenditures							
	New expansion		Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	758,399	202,424,183	102,985	39,710,805	69,272	10,775,241	1,012,316	177,878,788
Alabama	2,242	595,850	15	15,600	(D)	(D)	(D)	(D)
Alaska	-	-	-	-	-	-	5	10,000
Arizona	5,292	1,456,000	7,740	983,700	-	-	17,863	13,788,839
Arkansas	57,950	4,742,500	6,009	1,914,600	9,020	362,000	60,651	6,855,500
California	186,734	89,296,122	27,379	21,252,150	33,796	4,457,000	205,529	53,513,435
Colorado	7,350	4,585,330	9,000	1,838,312	-	-	17,262	2,040,270
Connecticut	112	60,550	8	120,000	-	-	-	-
Delaware	4,074	603,626	-	-	1,659	346,473	460	117,000
Florida	8,226	3,474,226	3,560	1,924,918	-	-	12,063	2,894,172
Georgia	27,119	7,044,641	2,390	988,200	800	125,000	8,192	1,162,800
Hawaii	(D)	(D)	-	-	-	-	-	-
Idaho	22,280	8,853,110	600	375,000	800	120,000	52,599	4,841,243
Illinois	12,995	1,938,540	(D)	(D)	(D)	(D)	9,991	1,482,290
Indiana	24,888	4,994,091	650	130,000	502	200,000	4,413	673,120
Iowa	7,787	1,591,163	-	-	-	-	1,964	368,240
Kansas	13,862	2,205,544	4,664	948,000	-	-	114,578	17,124,386
Kentucky	795	169,000	-	-	-	-	-	-
Louisiana	19,019	2,014,600	1,480	300,000	-	-	18,639	761,800
Maine	(D)	(D)	-	-	-	-	(D)	(D)
Maryland	2,964	595,988	-	-	-	-	1,395	260,000
Massachusetts	(D)	(D)	390	125,000	-	-	(D)	(D)
Michigan	20,619	8,497,822	890	238,000	2,200	286,788	6,293	1,415,800
Minnesota	7,649	3,195,761	(D)	(D)	(D)	(D)	4,361	973,271
Mississippi	44,503	4,375,108	(D)	(D)	(D)	(D)	18,805	2,641,200
Missouri	21,043	2,986,400	3,063	619,440	200	41,000	19,580	1,051,410
Montana	-	-	-	-	-	-	-	-
Nebraska	29,421	8,479,200	16,238	3,271,550	10,220	1,330,000	213,728	27,664,882
Nevada	8,818	673,986	-	-	-	-	12,073	3,299,000
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	(D)	130,488	(D)	(D)	2,076	(D)	418	98,000
New Mexico	2,685	1,222,239	(D)	(D)	(D)	(D)	16,853	5,813,498
New York	(D)	(D)	-	-	-	-	(D)	129,200
North Carolina	4,350	1,041,600	-	-	-	-	7	35,000
North Dakota	-	-	-	-	-	-	4,154	540,000
Ohio	1,359	322,316	-	-	-	-	318	129,030
Oklahoma	10,144	1,860,846	1,490	190,000	11	1,980	6,676	1,042,309
Oregon	2,133	396,561	-	-	-	-	8,495	500,900
Pennsylvania	330	133,400	530	86,000	-	-	70	13,000
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	4,557	2,304,000	-	-	-	-	1,566	303,234
South Dakota	10,818	2,392,454	-	-	(D)	(D)	(D)	(D)
Tennessee	10,391	2,672,560	(D)	(D)	-	-	(D)	(D)
Texas	160,536	21,851,198	10,080	2,827,000	750	660,000	123,409	17,158,520
Utah	(D)	(D)	-	-	-	-	(D)	(D)
Vermont	38	57,800	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	(D)	(D)
Washington	3,440	1,652,175	880	110,000	-	-	31,473	3,325,429
West Virginia	3	(D)	-	-	-	-	(D)	(D)
Wisconsin	10,992	3,348,032	(D)	(D)	(D)	(D)	2,289	848,000
Wyoming	-	-	-	-	90	75,000	1,200	300,000
Water Resources Regions								
Region 01 New England	246	412,546	398	245,000	-	-	274	84,725
Region 02 Mid-Atlantic	7,578	(D)	580	106,000	3,735	442,473	2,662	(D)
Region 03 South Atlantic-Gulf	45,849	14,245,089	5,965	2,928,718	884	223,000	23,831	5,506,506
Region 04 Great Lakes	29,751	10,883,982	1,090	288,000	2,200	286,788	9,704	2,108,700
Region 05 Ohio	17,858	3,039,706	-	-	-	-	2,421	450,450
Region 06 Tennessee	2,516	526,228	-	-	-	-	-	-
Region 07 Upper Mississippi	34,296	9,197,554	2,590	659,835	3,926	750,000	16,264	3,082,187
Region 08 Lower Mississippi	137,992	14,578,048	13,872	3,264,040	11,180	710,000	97,682	8,925,860
Region 09 Souris-Red-Rainy	(D)	56,000	-	-	-	-	2,244	297,614
Region 10 Missouri	49,989	12,433,817	21,869	3,824,550	10,570	1,445,000	249,784	32,418,202
Region 11 Arkansas-White-Red	88,124	20,892,670	6,154	1,138,000	1,335	782,980	176,877	30,979,495
Region 12 Texas-Gulf	114,127	11,498,848	10,080	2,827,000	-	-	70,996	6,994,518
Region 13 Rio Grande	840	622,239	3,788	1,708,812	846	1,558,000	20,814	3,486,000
Region 14 Upper Colorado	-	-	-	-	-	-	1,350	(D)
Region 15 Lower Colorado	5,292	1,456,000	7,740	983,700	-	-	17,863	13,788,839
Region 16 Great Basin	8,848	807,986	-	-	-	-	26,699	7,465,185
Region 17 Pacific Northwest	28,173	10,917,846	1,480	485,000	800	120,000	87,317	8,015,072
Region 18 California	186,734	89,296,122	27,379	21,252,150	33,796	4,457,000	205,529	53,513,435
Region 19 Alaska	-	-	-	-	-	-	5	10,000
Region 20 Hawaii	(D)	(D)	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	New well construction or deepening of wells during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	134	40,244	153	52,512	1,384	291,408	7,885	1,558,808
Alabama	2	(D)	-	-	11	(D)	34	2,112
Alaska	-	-	-	-	-	-	5	5
Arizona	2	(D)	-	-	2	(D)	221	29,995
Arkansas	14	1,675	-	-	54	6,320	463	125,635
California	-	-	1	(D)	396	(D)	1,795	383,838
Colorado	5	5,000	-	-	4	1,500	240	27,112
Connecticut	22	120	-	-	-	-	-	-
Delaware	9	9	2	(D)	17	1,986	46	(D)
Florida	-	-	-	-	26	7,359	184	16,490
Georgia	5	800	12	507	46	8,887	175	28,307
Hawaii	-	-	-	-	-	-	6	(D)
Idaho	-	-	9	10,100	49	(D)	339	(D)
Illinois	-	-	2	(D)	31	(D)	129	21,366
Indiana	-	-	-	-	34	6,492	190	23,961
Iowa	-	-	2	(D)	19	(D)	51	(D)
Kansas	1	(D)	8	(D)	94	30,186	359	93,938
Kentucky	-	-	1	(D)	-	-	16	(D)
Louisiana	-	-	-	-	8	2,110	130	37,028
Maine	2	(D)	-	-	-	-	18	(D)
Maryland	-	-	-	-	9	914	28	3,445
Massachusetts	-	-	-	-	8	64	68	461
Michigan	-	-	3	520	47	4,921	243	24,561
Minnesota	-	-	-	-	40	3,140	100	9,700
Mississippi	18	7,330	2	(D)	19	(D)	220	50,959
Missouri	-	-	8	755	67	8,419	186	34,712
Montana	-	-	-	-	-	-	-	-
Nebraska	28	18,956	84	11,760	56	19,054	834	219,837
Nevada	-	-	-	-	4	620	54	20,271
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	2	(D)	22	(D)
New Mexico	11	2,900	-	-	19	1,405	225	16,841
New York	-	-	-	-	6	6	21	378
North Carolina	-	-	-	-	6	60	50	4,297
North Dakota	-	-	-	-	3	174	12	3,980
Ohio	-	-	2	(D)	11	(D)	32	1,367
Oklahoma	-	-	2	(D)	25	(D)	79	11,263
Oregon	-	-	-	-	6	633	119	9,995
Pennsylvania	9	36	-	-	-	-	45	894
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	-	-	8	8	9	1,753	54	4,362
South Dakota	4	1,920	-	-	30	3,634	42	7,172
Tennessee	2	(D)	5	(D)	10	1,622	32	8,931
Texas	-	-	-	-	176	64,242	734	230,533
Utah	-	-	-	-	14	3,581	137	7,495
Vermont	-	-	-	-	-	-	11	38
Virginia	-	-	-	-	-	-	2	(D)
Washington	-	-	-	-	1	(D)	40	(D)
West Virginia	-	-	-	-	-	-	4	(D)
Wisconsin	-	-	2	(D)	25	(D)	78	11,477
Wyoming	-	-	-	-	-	-	12	1,290
Water Resources Regions								
Region 01 New England	24	(D)	-	-	8	64	94	(D)
Region 02 Mid-Atlantic	18	(D)	2	(D)	28	3,040	152	11,070
Region 03 South Atlantic-Gulf	7	840	13	508	95	18,067	552	57,114
Region 04 Great Lakes	-	-	3	520	72	7,337	353	34,888
Region 05 Ohio	-	-	5	280	44	5,300	144	14,699
Region 06 Tennessee	-	-	7	7	3	494	9	2,015
Region 07 Upper Mississippi	-	-	2	(D)	86	(D)	334	47,801
Region 08 Lower Mississippi	34	10,005	15	(D)	103	(D)	809	223,148
Region 09 Souris-Red-Rainy	-	-	-	-	5	(D)	9	(D)
Region 10 Missouri	37	25,876	86	11,840	152	27,230	1,097	267,266
Region 11 Arkansas-White-Red	1	(D)	10	(D)	173	67,528	803	195,940
Region 12 Texas-Gulf	8	1,392	-	-	129	35,867	584	157,944
Region 13 Rio Grande	3	1,508	-	-	14	1,510	229	23,270
Region 14 Upper Colorado	-	-	-	-	-	-	3	1,350
Region 15 Lower Colorado	2	(D)	-	-	2	(D)	221	29,995
Region 16 Great Basin	-	-	-	-	18	4,201	201	31,346
Region 17 Pacific Northwest	-	-	9	10,100	56	32,313	485	75,357
Region 18 California	-	-	1	(D)	396	(D)	1,795	383,838
Region 19 Alaska	-	-	-	-	-	-	5	5
Region 20 Hawaii	-	-	-	-	-	-	6	(D)

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Construction or improvement of permanent storage and distribution systems during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	6,118	1,188,201	103,479	16,914	1,889	2,780	766	401	282
Alabama	16	942	626	39,119	-	3	4	4	5
Alaska	4	4	2	500	4	-	-	-	-
Arizona	358	45,493	1,956	5,462	276	38	19	18	7
Arkansas	142	68,712	3,963	27,907	6	76	25	15	20
California	326	180,843	9,765	29,955	8	165	66	49	38
Colorado	1,319	123,600	4,481	3,398	633	616	56	13	1
Connecticut	14	14	86	6,161	-	7	7	-	-
Delaware	1	(D)	(D)	(D)	-	-	-	-	1
Florida	99	56,190	15,467	156,237	18	25	23	12	21
Georgia	86	9,454	1,597	18,573	-	55	22	-	9
Hawaii	32	(D)	4,208	131,500	7	17	-	6	2
Idaho	480	67,811	3,630	7,562	132	251	60	31	6
Illinois	9	590	104	11,544	-	7	-	2	-
Indiana	34	3,251	292	8,595	-	27	2	5	-
Iowa	13	480	414	31,846	-	11	-	-	2
Kansas	66	7,068	871	13,194	8	8	49	1	-
Kentucky	31	2,379	404	13,016	9	19	1	-	2
Louisiana	44	8,673	(D)	(D)	9	30	4	-	1
Maine	6	785	(D)	(D)	-	2	-	-	4
Maryland	37	240	672	18,159	3	9	25	-	-
Massachusetts	117	1,616	2,654	22,687	7	40	11	59	-
Michigan	78	4,976	1,319	16,908	12	34	13	17	2
Minnesota	5	3,687	45	8,900	-	2	3	-	-
Mississippi	38	11,422	3,458	91,001	11	2	8	6	11
Missouri	63	22,587	1,125	17,864	6	38	14	-	5
Montana	463	159,980	3,586	7,744	36	400	17	6	4
Nebraska	168	21,350	6,636	39,500	-	42	70	14	42
Nevada	151	49,621	803	5,317	13	123	11	4	-
New Hampshire	6	12	(D)	(D)	3	-	3	-	-
New Jersey	16	1,196	308	19,243	-	8	6	-	2
New Mexico	110	58,591	1,978	17,983	44	50	12	1	3
New York	65	613	462	7,112	18	35	-	12	-
North Carolina	38	2,139	303	7,974	-	24	14	-	-
North Dakota	5	567	56	11,200	-	3	2	-	-
Ohio	28	500	78	2,783	18	8	2	-	-
Oklahoma	20	1,739	264	13,193	3	14	-	2	1
Oregon	322	33,343	2,970	9,224	108	156	44	8	6
Pennsylvania	31	371	(D)	(D)	8	23	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	11	(D)	91	8,227	-	7	4	-	-
South Dakota	11	6,874	1,135	103,182	-	2	7	-	2
Tennessee	36	437	189	5,254	12	18	6	-	-
Texas	439	63,613	13,198	30,065	182	132	23	43	59
Utah	193	30,277	807	4,181	64	102	25	1	1
Vermont	-	-	-	-	-	-	-	-	-
Virginia	21	883	604	28,774	7	1	1	12	-
Washington	129	31,237	5,446	42,216	-	37	66	10	16
West Virginia	12	(D)	36	2,963	6	3	3	-	-
Wisconsin	97	4,042	2,742	28,263	20	29	17	25	6
Wyoming	328	98,213	2,269	6,919	198	81	21	25	3
Water Resources Regions									
Region 01 New England	143	2,427	3,303	23,095	10	49	21	59	4
Region 02 Mid-Atlantic	133	2,402	1,916	14,408	28	50	34	18	3
Region 03 South Atlantic-Gulf	259	69,684	(D)	(D)	25	114	64	19	37
Region 04 Great Lakes	114	5,873	1,526	13,389	18	59	15	20	2
Region 05 Ohio	116	6,055	858	7,398	35	69	3	7	2
Region 06 Tennessee	30	350	191	6,367	12	8	10	-	-
Region 07 Upper Mississippi	126	12,089	3,219	25,547	20	50	22	25	9
Region 08 Lower Mississippi	215	100,676	9,373	43,595	19	105	38	21	32
Region 09 Souris-Red-Rainy	7	(D)	(D)	(D)	-	3	4	-	-
Region 10 Missouri	1,203	288,543	16,223	13,485	332	573	202	43	53
Region 11 Arkansas-White-Red	167	44,240	5,105	30,569	11	104	19	25	8
Region 12 Texas-Gulf	343	35,100	8,883	25,899	174	76	15	25	53
Region 13 Rio Grande	349	16,783	1,017	2,914	227	106	9	5	2
Region 14 Upper Colorado	902	139,627	3,755	4,163	439	430	26	6	1
Region 15 Lower Colorado	334	45,445	1,944	5,819	252	38	19	18	7
Region 16 Great Basin	278	82,573	1,436	5,164	26	218	27	6	1
Region 17 Pacific Northwest	1,010	144,498	12,013	11,894	242	543	148	49	28
Region 18 California	353	187,611	10,038	28,438	8	168	90	49	38
Region 19 Alaska	4	4	2	500	4	-	-	-	-
Region 20 Hawaii	32	(D)	4,208	131,500	7	17	-	6	2

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Construction or improvement of permanent storage and distribution systems during survey year - con.							
	Primary purpose of expenditures							
	New expansion		Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	99,311	34,065,138	302,250	32,147,257	34,949	1,886,600	751,691	35,380,343
Alabama	475	485,000	(D)	(D)	-	-	(D)	(D)
Alaska	4	2,000	-	-	-	-	-	-
Arizona	1,200	92,000	12,538	1,205,142	-	-	31,755	658,400
Arkansas	1,800	1,200,000	46,394	2,012,200	10,442	277,500	10,076	473,160
California	38,090	1,632,997	35,400	5,159,000	3,900	250,000	103,453	2,723,452
Colorado	1,300	56,000	50,486	2,832,934	6,325	141,000	65,489	1,451,532
Connecticut	14	86,254	-	-	-	-	-	-
Delaware	(D)	(D)	-	-	-	-	-	-
Florida	6,067	9,288,248	7,120	2,641,916	-	-	43,003	3,537,319
Georgia	5,068	953,700	2,692	457,600	-	-	1,694	186,000
Hawaii	(D)	(D)	6	180,000	-	-	296	(D)
Idaho	(D)	50,500	12,561	(D)	(D)	(D)	53,065	2,566,324
Illinois	(D)	(D)	-	-	-	-	(D)	(D)
Indiana	(D)	66,000	141	218,720	-	-	(D)	7,500
Iowa	470	409,000	10	5,000	-	-	-	-
Kansas	(D)	(D)	(D)	(D)	-	-	5,940	751,845
Kentucky	(D)	334,200	(D)	(D)	-	-	565	(D)
Louisiana	645	28,500	450	12,000	600	(D)	6,978	(D)
Maine	(D)	500,000	-	-	-	-	(D)	(D)
Maryland	75	147,667	43	501,200	-	-	122	23,000
Massachusetts	(D)	56,000	1,347	549,585	-	-	(D)	2,048,743
Michigan	889	1,048,600	(D)	1,800	(D)	(D)	3,859	(D)
Minnesota	(D)	(D)	-	-	-	-	(D)	(D)
Mississippi	1,670	500,000	7,345	1,742,225	-	-	2,407	1,215,800
Missouri	(D)	380,000	1,652	(D)	(D)	(D)	19,324	594,923
Montana	4,250	239,200	50,493	1,204,900	6,600	100,000	98,637	2,041,400
Nebraska	12,950	5,460,000	1,470	1,050,000	-	-	6,930	126,000
Nevada	780	53,000	9,279	201,500	-	-	39,562	548,340
New Hampshire	-	-	-	-	-	-	12	(D)
New Jersey	(D)	36,000	(D)	(D)	(D)	(D)	191	68,883
New Mexico	100	20,000	(D)	412,000	-	-	(D)	1,546,161
New York	565	450,900	24	2,400	-	-	24	9,000
North Carolina	1,400	(D)	(D)	(D)	-	-	(D)	173,000
North Dakota	567	56,000	-	-	-	-	-	-
Ohio	310	51,550	42	6,374	-	-	148	20,000
Oklahoma	569	86,350	1,170	177,501	-	-	-	-
Oregon	1,305	115,220	15,553	1,679,245	1,800	873,000	14,685	302,531
Pennsylvania	33	28,200	132	10,000	-	-	206	(D)
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	(D)	10,500	-	-	-	-	(D)	80,000
South Dakota	-	-	-	-	(D)	(D)	(D)	(D)
Tennessee	95	56,635	74	106,500	-	-	268	26,000
Texas	2,922	1,331,200	21,075	3,966,601	-	-	39,616	7,900,516
Utah	2,387	198,000	1,360	144,266	720	12,000	25,810	452,600
Vermont	-	-	-	-	-	-	-	-
Virginia	536	482,000	215	(D)	(D)	(D)	(D)	1,400
Washington	(D)	3,505,017	5,027	(D)	(D)	(D)	19,159	614,042
West Virginia	-	-	9	30,150	-	-	(D)	5,400
Wisconsin	149	140,200	(D)	1,829,355	-	-	(D)	772,000
Wyoming	(D)	(D)	12,332	914,686	(D)	(D)	83,251	1,246,622
Water Resources Regions								
Region 01 New England	390	642,254	1,347	549,585	-	-	690	2,110,793
Region 02 Mid-Atlantic	(D)	970,567	1,079	846,400	(D)	(D)	(D)	(D)
Region 03 South Atlantic-Gulf	13,498	11,151,448	(D)	3,151,916	(D)	(D)	46,292	4,062,219
Region 04 Great Lakes	1,564	1,242,600	(D)	(D)	(D)	(D)	4,063	187,400
Region 05 Ohio	950	508,585	1,729	259,344	-	-	3,376	90,200
Region 06 Tennessee	(D)	(D)	(D)	(D)	-	-	260	(D)
Region 07 Upper Mississippi	1,611	511,700	1,617	1,834,355	-	-	8,861	872,900
Region 08 Lower Mississippi	4,065	1,540,500	54,633	3,775,225	11,202	330,240	30,776	3,726,860
Region 09 Souris-Red-Rainy	567	(D)	-	-	-	-	(D)	(D)
Region 10 Missouri	19,397	6,258,200	88,922	4,180,904	8,904	136,000	171,320	5,647,621
Region 11 Arkansas-White-Red	569	86,350	13,914	1,553,391	-	-	29,757	3,465,345
Region 12 Texas-Gulf	2,922	1,331,200	10,602	2,863,601	-	-	21,576	4,688,516
Region 13 Rio Grande	100	20,000	8,412	700,644	-	-	8,271	296,400
Region 14 Upper Colorado	1,490	202,000	18,540	1,356,490	7,045	153,000	112,552	2,043,817
Region 15 Lower Colorado	1,200	92,000	12,538	1,205,142	-	-	31,707	646,400
Region 16 Great Basin	2,137	79,000	11,139	330,766	-	-	69,297	1,025,840
Region 17 Pacific Northwest	8,941	3,695,737	25,716	3,840,094	3,600	904,500	106,241	3,572,297
Region 18 California	38,090	1,632,997	42,120	5,423,000	3,900	250,000	103,501	2,732,452
Region 19 Alaska	4	2,000	-	-	-	-	-	-
Region 20 Hawaii	(D)	(D)	6	180,000	-	-	296	(D)

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Construction or improvement of permanent storage and distribution systems during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	201	59,215	155	26,067	267	112,629	5,495	990,290
Alabama	-	-	-	-	-	-	16	942
Alaska	-	-	-	-	-	-	4	4
Arizona	6	1,480	19	2,911	3	1,175	330	39,927
Arkansas	23	(D)	14	2,240	20	(D)	85	50,322
California	8	13,679	14	(D)	1	(D)	303	165,394
Colorado	12	3,050	-	-	66	5,280	1,241	115,270
Connecticut	7	7	-	-	-	-	7	7
Delaware	-	-	1	(D)	-	-	-	-
Florida	9	2,802	-	-	16	(D)	74	(D)
Georgia	-	-	-	-	5	200	81	9,254
Hawaii	-	-	-	-	-	-	32	(D)
Idaho	-	-	-	-	9	1,530	471	66,281
Illinois	-	-	-	-	-	-	9	590
Indiana	-	-	6	6	-	-	28	3,245
Iowa	-	-	-	-	-	-	13	480
Kansas	-	-	-	-	1	(D)	65	(D)
Kentucky	-	-	-	-	1	(D)	30	(D)
Louisiana	-	-	-	-	3	600	41	8,073
Maine	-	-	-	-	3	150	3	635
Maryland	-	-	-	-	20	40	17	200
Massachusetts	44	1,404	-	-	54	108	19	104
Michigan	-	-	-	-	2	(D)	76	(D)
Minnesota	-	-	-	-	-	-	5	3,687
Mississippi	10	5,820	2	(D)	7	3,065	19	(D)
Missouri	3	2,097	-	-	-	-	60	20,490
Montana	-	-	4	(D)	1	(D)	458	155,460
Nebraska	-	-	42	6,720	-	-	126	14,630
Nevada	2	(D)	-	-	3	(D)	146	41,969
New Hampshire	-	-	-	-	-	-	6	12
New Jersey	-	-	-	-	-	-	16	1,196
New Mexico	27	(D)	-	-	1	(D)	82	(D)
New York	-	-	-	-	10	56	55	557
North Carolina	-	-	-	-	-	-	38	2,139
North Dakota	-	-	-	-	-	-	5	567
Ohio	-	-	-	-	-	-	28	500
Oklahoma	-	-	-	-	-	-	20	1,739
Oregon	-	-	-	-	5	2,990	317	30,353
Pennsylvania	-	-	-	-	-	-	31	371
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	11	(D)
South Dakota	-	-	-	-	2	(D)	9	(D)
Tennessee	-	-	-	-	6	6	30	431
Texas	13	8,073	-	-	11	17,400	415	38,140
Utah	13	4,040	4	1,620	9	695	167	23,922
Vermont	-	-	-	-	-	-	-	-
Virginia	-	-	7	140	-	-	14	743
Washington	14	2,146	34	(D)	2	(D)	79	27,111
West Virginia	-	-	-	-	-	-	12	(D)
Wisconsin	7	140	-	-	5	525	85	3,377
Wyoming	3	(D)	8	6,700	1	(D)	316	90,763
Water Resources Regions								
Region 01 New England	51	1,411	-	-	57	258	35	758
Region 02 Mid-Atlantic	-	-	8	190	24	72	101	2,140
Region 03 South Atlantic-Gulf	9	2,802	-	-	21	9,674	229	57,208
Region 04 Great Lakes	-	-	-	-	8	184	106	5,689
Region 05 Ohio	-	-	6	6	1	(D)	109	(D)
Region 06 Tennessee	-	-	-	-	6	6	24	344
Region 07 Upper Mississippi	7	140	-	-	5	525	114	11,424
Region 08 Lower Mississippi	33	15,720	8	2,660	25	9,165	149	73,131
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	7	(D)
Region 10 Missouri	6	(D)	50	11,540	3	(D)	1,144	272,002
Region 11 Arkansas-White-Red	14	8,523	8	(D)	83	(D)	62	(D)
Region 12 Texas-Gulf	-	-	-	-	-	-	343	35,100
Region 13 Rio Grande	38	4,025	-	-	-	-	311	12,758
Region 14 Upper Colorado	3	(D)	4	4,400	9	(D)	886	(D)
Region 15 Lower Colorado	6	1,480	19	2,911	3	1,175	306	39,879
Region 16 Great Basin	12	6,202	4	1,620	5	5,305	257	69,446
Region 17 Pacific Northwest	14	2,146	34	(D)	16	(D)	946	135,852
Region 18 California	8	13,679	14	(D)	1	(D)	330	172,162
Region 19 Alaska	-	-	-	-	-	-	4	4
Region 20 Hawaii	-	-	-	-	-	-	32	(D)

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Computers, control panels, and computer controlled valves and hardware for irrigation water management during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	8,012	2,191,258	61,929	7,730	2,652	3,830	1,104	302	124
Alabama	39	3,019	66	1,696	16	21	2	-	-
Alaska	4	4	1	370	4	-	-	-	-
Arizona	52	19,612	407	7,820	32	5	13	2	-
Arkansas	57	31,854	799	14,018	5	29	17	6	-
California	2,276	284,680	14,624	6,425	1,459	573	126	71	47
Colorado	207	102,852	2,149	10,383	6	114	74	13	-
Connecticut	22	136	51	2,305	-	22	-	-	-
Delaware	21	2,144	200	9,509	-	11	10	-	-
Florida	250	17,475	1,620	6,481	135	87	14	7	7
Georgia	154	53,728	1,876	12,180	18	96	28	6	6
Hawaii	68	1,132	198	2,919	44	22	-	-	2
Idaho	288	132,713	5,135	17,831	28	139	75	35	11
Illinois	118	34,983	1,519	12,872	16	61	29	7	5
Indiana	125	24,150	1,233	9,867	15	76	21	13	-
Iowa	38	3,044	209	5,497	11	22	3	2	-
Kansas	609	236,086	3,361	5,519	22	515	71	-	1
Kentucky	37	2,372	145	3,916	22	9	6	-	-
Louisiana	25	5,903	(D)	(D)	9	14	2	-	-
Maine	8	8	(D)	(D)	-	8	-	-	-
Maryland	24	3,372	119	4,946	5	14	5	-	-
Massachusetts	72	2,862	256	3,557	23	39	10	-	-
Michigan	122	18,954	(D)	(D)	29	67	17	7	2
Minnesota	59	15,347	784	13,281	16	22	14	2	5
Mississippi	93	28,583	1,008	10,842	16	36	40	1	-
Missouri	38	12,452	288	7,585	2	29	7	-	-
Montana	66	33,435	399	6,039	22	27	15	2	-
Nebraska	688	267,402	5,214	7,578	126	414	117	29	2
Nevada	28	23,347	342	12,207	5	12	8	3	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	33	1,176	229	6,948	2	26	1	4	-
New Mexico	52	71,858	522	10,031	10	30	4	5	3
New York	25	314	(D)	(D)	25	-	-	-	-
North Carolina	104	5,086	366	3,516	47	48	8	1	-
North Dakota	43	13,983	332	7,717	7	27	7	2	-
Ohio	51	2,649	203	3,972	14	33	4	-	-
Oklahoma	66	31,046	424	6,421	8	46	9	1	2
Oregon	419	59,740	2,906	6,936	131	173	106	6	3
Pennsylvania	51	246	108	2,127	25	19	7	-	-
Rhode Island	15	48	(D)	(D)	12	-	3	-	-
South Carolina	87	4,334	461	5,304	56	14	15	2	-
South Dakota	34	8,217	312	9,176	6	22	4	-	2
Tennessee	37	3,656	153	4,145	6	24	7	-	-
Texas	635	313,356	4,314	6,793	41	500	80	7	7
Utah	97	30,766	600	6,181	34	36	23	4	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	47	1,485	86	1,825	25	20	2	-	-
Washington	430	190,328	4,781	11,118	105	242	35	32	16
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	147	56,853	1,987	13,515	12	65	48	19	3
Wyoming	51	34,468	914	17,912	-	21	17	13	-
Water Resources Regions									
Region 01 New England	117	3,054	368	3,142	35	69	13	-	-
Region 02 Mid-Atlantic	161	8,561	729	4,527	51	81	25	4	-
Region 03 South Atlantic-Gulf	689	86,108	5,200	7,548	285	272	103	16	13
Region 04 Great Lakes	217	28,356	1,741	8,022	69	109	23	14	2
Region 05 Ohio	200	23,227	1,405	7,024	49	109	32	10	-
Region 06 Tennessee	23	1,902	87	3,781	-	20	3	-	-
Region 07 Upper Mississippi	310	104,058	3,872	12,490	37	152	86	22	13
Region 08 Lower Mississippi	142	67,075	825	5,808	28	86	27	1	-
Region 09 Souris-Red-Rainy	30	7,319	233	7,755	-	23	5	2	-
Region 10 Missouri	1,330	509,676	10,307	7,750	185	860	224	57	4
Region 11 Arkansas-White-Red	625	387,033	4,493	7,188	11	460	140	11	3
Region 12 Texas-Gulf	438	149,228	3,144	7,179	40	354	28	6	10
Region 13 Rio Grande	47	12,000	448	9,521	10	23	9	5	-
Region 14 Upper Colorado	39	63,110	181	4,652	21	9	8	1	-
Region 15 Lower Colorado	57	35,972	410	7,186	37	5	13	2	-
Region 16 Great Basin	82	49,074	752	9,166	24	27	23	8	-
Region 17 Pacific Northwest	1,132	379,974	12,457	11,005	268	573	189	72	30
Region 18 California	2,301	274,395	15,080	6,553	1,454	576	153	71	47
Region 19 Alaska	4	4	1	370	4	-	-	-	-
Region 20 Hawaii	68	1,132	198	2,919	44	22	-	-	2

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Computers, control panels, and computer controlled valves and hardware for irrigation water management during survey year - con.							
	Primary purpose of expenditures							
	New expansion		Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	248,328	9,817,126	681,452	17,069,800	276,412	12,622,543	985,066	22,419,492
Alabama	1,213	39,500	-	-	-	-	1,806	26,643
Alaska	-	-	4	1,480	-	-	-	-
Arizona	-	-	10,429	239,900	(D)	128,400	(D)	38,320
Arkansas	5,000	130,000	600	420,000	23,160	224,000	3,094	25,000
California	55,574	2,395,671	112,102	3,652,975	30,095	3,763,100	86,909	4,811,754
Colorado	13,167	458,480	45,520	1,043,500	6,870	92,800	37,295	554,500
Connecticut	105	7,700	-	-	-	-	31	43,000
Delaware	1,122	83,000	(D)	89,692	394	(D)	(D)	(D)
Florida	2,160	49,440	4,880	913,819	389	61,800	10,046	595,107
Georgia	10,137	754,300	27,988	617,380	5,200	217,500	10,403	286,500
Hawaii	713	161,650	-	-	-	-	419	36,820
Idaho	660	15,500	36,033	593,380	48,419	1,745,000	47,601	2,781,405
Illinois	15,232	864,700	5,924	212,100	2,780	165,000	11,047	277,040
Indiana	8,950	922,410	4,938	85,000	4,440	62,260	5,822	163,647
Iowa	1,946	149,000	(D)	(D)	(D)	(D)	652	(D)
Kansas	47,426	528,000	92,373	504,085	18,216	359,500	78,071	1,969,230
Kentucky	(D)	106,400	-	-	17	2,280	(D)	36,200
Louisiana	-	-	4,030	(D)	-	-	1,873	31,600
Maine	-	-	-	-	-	-	8	(D)
Maryland	320	11,000	992	14,100	1,391	61,500	669	32,100
Massachusetts	-	-	740	127,517	1,349	94,500	773	34,100
Michigan	4,349	313,490	7,582	428,400	1,930	(D)	5,093	256,564
Minnesota	970	104,000	1,623	44,760	3,925	25,500	8,829	609,339
Mississippi	9,340	736,800	13,841	(D)	(D)	(D)	(D)	104,100
Missouri	2,921	99,976	(D)	119,254	(D)	23,000	7,412	46,000
Montana	-	-	(D)	(D)	(D)	(D)	24,127	167,029
Nebraska	5,330	67,650	79,331	2,514,480	16,220	214,000	166,521	2,417,807
Nevada	108	45,000	3,300	165,000	3,080	47,500	16,859	84,300
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	(D)	(D)	373	123,000	-	-	(D)	(D)
New Mexico	2,790	24,600	-	-	2,325	137,500	66,743	359,522
New York	16	(D)	-	-	-	-	298	(D)
North Carolina	1,216	50,000	2,328	76,962	325	10,000	1,217	228,700
North Dakota	1,563	3,000	5,941	185,000	3,312	34,500	3,167	109,340
Ohio	584	76,000	17	3,450	1,085	46,000	963	77,100
Oklahoma	3,466	33,430	20,789	208,780	3,990	3,840	2,801	177,740
Oregon	7,818	239,789	11,575	450,322	10,067	1,527,000	30,280	689,222
Pennsylvania	72	15,570	134	74,000	-	-	40	18,900
Rhode Island	-	-	36	34,770	-	-	12	(D)
South Carolina	555	231,750	760	25,000	2,100	146,400	919	58,300
South Dakota	4,140	93,490	1,165	28,200	-	-	2,912	190,300
Tennessee	1,633	74,000	(D)	(D)	(D)	(D)	1,055	38,000
Texas	26,642	279,480	115,964	1,436,640	30,239	295,310	140,511	2,302,432
Utah	2,200	50,000	3,720	40,000	5,160	270,800	19,686	238,805
Vermont	-	-	-	-	-	-	-	-
Virginia	8	2,400	216	24,000	-	-	1,261	59,372
Washington	3,450	309,650	43,302	1,232,490	22,598	1,621,781	120,978	1,616,734
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	3,797	194,500	6,951	601,304	13,780	572,644	32,325	618,320
Wyoming	(D)	(D)	9,132	525,000	(D)	263,400	23,300	(D)
Water Resources Regions								
Region 01 New England	105	7,700	776	162,287	1,349	94,500	824	103,100
Region 02 Mid-Atlantic	1,892	175,970	1,875	320,792	1,785	84,500	3,009	147,572
Region 03 South Atlantic-Gulf	16,876	1,841,990	35,944	1,626,399	9,374	485,700	23,914	1,246,250
Region 04 Great Lakes	8,961	699,790	10,559	454,250	3,155	216,000	5,681	370,654
Region 05 Ohio	7,193	793,510	5,414	114,500	3,817	178,540	6,803	318,287
Region 06 Tennessee	626	39,000	18	7,962	-	-	1,258	40,000
Region 07 Upper Mississippi	18,993	1,109,000	10,588	826,654	20,221	578,144	54,256	1,358,069
Region 08 Lower Mississippi	15,039	214,776	18,734	264,514	23,948	249,200	9,354	96,200
Region 09 Souris-Red-Rainy	1,643	13,000	2,125	57,110	(D)	(D)	(D)	(D)
Region 10 Missouri	24,233	639,620	149,810	4,222,680	37,926	1,006,728	297,707	4,437,837
Region 11 Arkansas-White-Red	58,192	711,430	166,804	1,800,565	38,461	382,930	123,576	1,597,740
Region 12 Texas-Gulf	20,782	145,080	58,340	836,540	10,549	185,220	59,557	1,977,432
Region 13 Rio Grande	3,270	209,000	-	-	(D)	(D)	(D)	(D)
Region 14 Upper Colorado	-	-	-	-	1,000	(D)	62,110	(D)
Region 15 Lower Colorado	-	-	26,789	242,900	(D)	128,400	(D)	38,320
Region 16 Great Basin	2,308	95,000	8,072	250,000	7,240	214,300	31,454	192,300
Region 17 Pacific Northwest	11,928	564,939	84,383	2,072,192	80,484	4,593,781	203,179	5,226,190
Region 18 California	55,574	2,395,671	101,217	3,808,975	30,695	4,063,100	86,909	4,811,754
Region 19 Alaska	-	-	4	1,480	-	-	-	-
Region 20 Hawaii	713	161,650	-	-	-	-	419	36,820

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Computers, control panels, and computer controlled valves and hardware for irrigation water management during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	591	36,047	217	51,264	944	346,497	6,260	1,757,450
Alabama	-	-	-	-	1	(D)	38	(D)
Alaska	-	-	-	-	-	-	4	4
Arizona	7	840	-	-	4	8,120	41	10,652
Arkansas	-	-	-	-	17	12,900	40	18,954
California	475	4,465	-	-	387	55,696	1,414	224,519
Colorado	5	2,780	20	8,900	4	1,500	178	89,672
Connecticut	7	105	-	-	-	-	15	31
Delaware	-	-	-	-	9	930	12	1,214
Florida	9	27	-	-	18	7,022	223	10,426
Georgia	-	-	-	-	7	751	147	52,977
Hawaii	-	-	-	-	-	-	68	1,132
Idaho	14	15,875	-	-	38	20,663	236	96,175
Illinois	-	-	-	-	7	4,664	111	30,319
Indiana	-	-	-	-	8	480	117	23,670
Iowa	2	(D)	-	-	2	(D)	34	1,714
Kansas	-	-	70	12,600	95	37,253	444	186,233
Kentucky	-	-	-	-	3	1,900	34	472
Louisiana	-	-	-	-	-	-	25	5,903
Maine	-	-	-	-	-	-	8	8
Maryland	-	-	-	-	-	-	24	3,372
Massachusetts	5	815	-	-	7	238	60	1,809
Michigan	-	-	3	2,426	20	2,454	99	14,074
Minnesota	-	-	-	-	12	3,754	47	11,593
Mississippi	1	(D)	-	-	1	(D)	91	(D)
Missouri	1	(D)	-	-	4	(D)	33	11,846
Montana	-	-	4	1,128	-	-	62	32,307
Nebraska	-	-	42	4,368	55	36,130	591	226,904
Nevada	-	-	2	(D)	2	(D)	24	19,547
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	33	1,176
New Mexico	3	(D)	-	-	6	(D)	43	12,610
New York	-	-	-	-	6	6	19	308
North Carolina	1	(D)	-	-	-	-	103	(D)
North Dakota	3	1,041	-	-	-	-	40	12,942
Ohio	-	-	-	-	6	(D)	45	(D)
Oklahoma	-	-	3	360	9	969	54	29,717
Oregon	3	900	30	2,640	77	7,645	309	48,555
Pennsylvania	-	-	-	-	-	-	51	246
Rhode Island	-	-	3	36	-	-	12	12
South Carolina	1	(D)	8	(D)	-	-	78	(D)
South Dakota	-	-	3	450	4	840	27	6,927
Tennessee	2	(D)	-	-	2	(D)	33	1,956
Texas	-	-	24	6,000	80	39,070	531	268,286
Utah	-	-	-	-	8	1,000	89	29,766
Vermont	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	47	1,485
Washington	44	2,944	5	10,548	31	35,399	350	141,437
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	2	(D)	-	-	14	(D)	131	54,900
Wyoming	6	1,536	-	-	-	-	45	32,932
Water Resources Regions								
Region 01 New England	12	920	3	36	7	238	95	1,860
Region 02 Mid-Atlantic	-	-	-	-	9	930	152	7,631
Region 03 South Atlantic-Gulf	11	247	8	8	25	7,773	645	78,080
Region 04 Great Lakes	2	(D)	3	(D)	35	3,148	177	22,042
Region 05 Ohio	-	-	-	-	18	2,930	182	20,297
Region 06 Tennessee	-	-	-	-	1	(D)	22	(D)
Region 07 Upper Mississippi	2	(D)	-	-	22	(D)	286	95,639
Region 08 Lower Mississippi	4	(D)	-	-	20	(D)	118	(D)
Region 09 Souris-Red-Rainy	3	(D)	-	-	1	(D)	26	5,994
Region 10 Missouri	11	4,316	133	24,446	71	40,230	1,115	440,684
Region 11 Arkansas-White-Red	3	1,125	33	9,360	147	59,897	442	316,651
Region 12 Texas-Gulf	-	-	-	-	36	22,177	402	127,051
Region 13 Rio Grande	-	-	-	-	4	1,500	43	10,500
Region 14 Upper Colorado	-	-	-	-	9	(D)	30	(D)
Region 15 Lower Colorado	7	840	-	-	4	8,120	46	27,012
Region 16 Great Basin	-	-	2	(D)	2	(D)	78	45,274
Region 17 Pacific Northwest	61	19,719	20	12,588	146	63,707	905	283,960
Region 18 California	475	4,465	15	600	387	55,696	1,424	213,634
Region 19 Alaska	-	-	-	-	-	-	4	4
Region 20 Hawaii	-	-	-	-	-	-	68	1,132

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Clearing or leveling non-irrigated land for new irrigation acres (new expansion) during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	3,901	218,173	77,235	19,799	707	1,826	857	278	233
Alabama	45	1,594	723	16,062	8	25	6	5	1
Alaska	-	-	-	-	-	-	-	-	-
Arizona	149	3,170	418	2,803	138	-	6	3	2
Arkansas	154	19,042	5,380	34,938	6	29	42	60	17
California	945	13,568	10,249	10,845	15	498	356	26	50
Colorado	258	2,473	854	3,311	71	183	-	4	-
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	11	(D)	(D)	(D)	-	5	2	4	-
Florida	187	3,672	1,849	9,889	53	93	14	22	5
Georgia	95	34,612	7,344	77,306	-	17	50	10	18
Hawaii	8	(D)	(D)	(D)	-	5	2	-	1
Idaho	292	11,706	4,762	16,307	240	16	25	-	11
Illinois	20	1,237	369	18,450	4	3	11	1	1
Indiana	42	2,101	410	9,773	6	16	18	2	-
Iowa	6	20	120	20,000	-	-	6	-	-
Kansas	7	362	153	21,882	-	1	6	-	-
Kentucky	19	110	23	1,184	5	14	-	-	-
Louisiana	108	16,058	5,228	48,408	9	50	13	20	16
Maine	-	-	-	-	-	-	-	-	-
Maryland	17	167	111	6,518	5	8	3	1	-
Massachusetts	14	138	381	27,242	-	7	2	5	-
Michigan	73	(D)	1,466	20,082	-	26	34	11	2
Minnesota	39	731	287	7,371	-	31	5	2	1
Mississippi	146	21,543	12,441	85,214	6	7	55	31	47
Missouri	68	4,792	1,774	26,089	-	12	42	10	4
Montana	18	1,800	18	1,000	-	18	-	-	-
Nebraska	179	22,563	1,645	9,190	-	121	43	15	-
Nevada	24	2,180	155	6,458	-	17	7	-	-
New Hampshire	4	11	(D)	(D)	-	3	1	-	-
New Jersey	23	(D)	253	11,000	-	21	-	-	2
New Mexico	221	3,366	1,367	6,183	-	206	9	-	6
New York	57	624	355	6,226	6	42	7	2	-
North Carolina	29	986	865	29,821	12	7	1	6	3
North Dakota	5	1,890	70	14,000	-	2	3	-	-
Ohio	11	596	134	12,207	-	7	3	1	-
Oklahoma	11	667	327	29,682	-	5	3	-	3
Oregon	41	2,003	373	9,103	10	24	3	4	-
Pennsylvania	6	146	59	9,900	-	4	2	-	-
Rhode Island	4	4	(D)	(D)	4	-	-	-	-
South Carolina	31	1,857	506	16,306	-	15	8	7	1
South Dakota	3	(D)	(D)	(D)	-	3	-	-	-
Tennessee	37	5,574	855	23,117	7	9	13	6	2
Texas	222	17,574	7,940	35,766	-	192	21	-	9
Utah	35	2,058	1,251	35,735	-	14	9	-	12
Vermont	8	8	14	1,800	-	8	-	-	-
Virginia	16	448	357	22,313	-	8	4	4	-
Washington	155	7,113	1,833	11,824	102	38	6	5	4
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	52	3,473	3,682	70,810	-	14	16	8	14
Wyoming	6	311	325	54,167	-	2	-	3	1
Water Resources Regions									
Region 01 New England	30	161	412	13,733	4	18	3	5	-
Region 02 Mid-Atlantic	67	975	1,020	15,224	5	37	14	9	2
Region 03 South Atlantic-Gulf	416	44,447	12,472	29,980	61	157	113	51	34
Region 04 Great Lakes	165	6,581	2,269	13,753	12	82	48	21	2
Region 05 Ohio	34	1,875	336	9,893	5	11	17	1	-
Region 06 Tennessee	39	717	187	4,803	17	16	3	3	-
Region 07 Upper Mississippi	112	5,353	4,193	37,438	4	54	32	6	16
Region 08 Lower Mississippi	424	61,178	23,018	54,288	23	102	121	100	78
Region 09 Souris-Red-Rainy	5	(D)	(D)	(D)	-	4	-	1	-
Region 10 Missouri	191	25,094	2,039	10,675	-	126	46	18	1
Region 11 Arkansas-White-Red	57	19,364	7,737	135,739	-	8	17	21	11
Region 12 Texas-Gulf	215	2,404	1,925	8,953	-	192	20	-	3
Region 13 Rio Grande	88	2,083	1,151	13,080	-	70	9	4	5
Region 14 Upper Colorado	532	4,326	1,112	2,091	209	322	-	-	1
Region 15 Lower Colorado	21	2,830	410	19,524	-	10	6	3	2
Region 16 Great Basin	286	11,208	1,419	4,961	240	18	16	-	12
Region 17 Pacific Northwest	263	14,822	6,878	26,151	112	96	31	9	15
Region 18 California	948	14,168	10,309	10,874	15	498	359	26	50
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	8	(D)	(D)	(D)	-	5	2	-	1

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Clearing or leveling non-irrigated land for new irrigation acres (new expansion) during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	40	3,793	57	667	207	44,848	3,597	168,865
Alabama	-	-	-	-	1	(D)	44	(D)
Alaska	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	149	3,170
Arkansas	6	282	-	-	10	500	138	18,260
California	5	1,500	-	-	12	520	928	11,548
Colorado	-	-	-	-	-	-	258	2,473
Connecticut	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	2	(D)	9	(D)
Florida	-	-	-	-	2	(D)	185	(D)
Georgia	-	-	-	-	19	1,585	76	33,027
Hawaii	2	(D)	-	-	-	-	6	(D)
Idaho	-	-	-	-	-	-	292	11,706
Illinois	-	-	-	-	8	1,040	12	197
Indiana	-	-	-	-	2	(D)	40	(D)
Iowa	-	-	-	-	-	-	6	20
Kansas	-	-	-	-	-	-	7	362
Kentucky	7	14	-	-	-	-	12	96
Louisiana	-	-	4	(D)	4	(D)	100	14,766
Maine	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	17	167
Massachusetts	-	-	-	-	-	-	14	138
Michigan	-	-	-	-	4	(D)	69	4,575
Minnesota	-	-	-	-	2	(D)	37	(D)
Mississippi	8	1,155	9	111	15	4,690	114	15,587
Missouri	3	(D)	-	-	16	(D)	49	4,027
Montana	-	-	-	-	-	-	18	1,800
Nebraska	-	-	-	-	28	14,140	151	8,423
Nevada	-	-	-	-	4	440	20	1,740
New Hampshire	-	-	-	-	-	-	4	11
New Jersey	-	-	-	-	-	-	23	(D)
New Mexico	-	-	44	(D)	1	(D)	176	2,087
New York	-	-	-	-	39	132	18	492
North Carolina	1	(D)	-	-	-	-	28	(D)
North Dakota	-	-	-	-	-	-	5	1,890
Ohio	-	-	-	-	1	(D)	10	(D)
Oklahoma	-	-	-	-	-	-	11	667
Oregon	-	-	-	-	3	273	38	1,730
Pennsylvania	-	-	-	-	-	-	6	146
Rhode Island	-	-	-	-	-	-	4	4
South Carolina	-	-	-	-	2	(D)	29	(D)
South Dakota	-	-	-	-	-	-	3	(D)
Tennessee	-	-	-	-	8	1,750	29	3,824
Texas	-	-	-	-	20	15,320	202	2,254
Utah	8	640	-	-	-	-	27	1,418
Vermont	-	-	-	-	-	-	8	8
Virginia	-	-	-	-	-	-	16	448
Washington	-	-	-	-	-	-	155	7,113
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	4	310	48	3,163
Wyoming	-	-	-	-	-	-	6	311
Water Resources Regions								
Region 01 New England	-	-	-	-	-	-	30	161
Region 02 Mid-Atlantic	-	-	-	-	5	64	62	911
Region 03 South Atlantic-Gulf	1	(D)	-	-	24	(D)	391	41,892
Region 04 Great Lakes	-	-	-	-	44	546	121	6,035
Region 05 Ohio	7	(D)	-	-	1	(D)	26	(D)
Region 06 Tennessee	-	-	-	-	-	-	39	717
Region 07 Upper Mississippi	-	-	-	-	12	(D)	100	(D)
Region 08 Lower Mississippi	17	1,617	13	271	50	8,552	344	50,738
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	5	(D)
Region 10 Missouri	-	-	-	-	28	14,140	163	10,954
Region 11 Arkansas-White-Red	-	-	-	-	9	15,105	48	4,259
Region 12 Texas-Gulf	-	-	-	-	14	320	201	2,084
Region 13 Rio Grande	-	-	44	396	-	-	44	1,687
Region 14 Upper Colorado	-	-	-	-	1	(D)	531	(D)
Region 15 Lower Colorado	-	-	-	-	-	-	21	2,830
Region 16 Great Basin	8	640	-	-	4	440	274	10,128
Region 17 Pacific Northwest	-	-	-	-	3	273	260	14,549
Region 18 California	5	1,500	-	-	12	520	931	12,148
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	-	-	-	-	6	(D)

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land leveling of previously irrigated land during survey year								
					Farms with expenses of -				
	Farms	Acres irrigated affected by expenditure (see text)	Expenses [1] ($1,000)	Average per farm (dollars)	$1 to $999	$1,000 to $9,999	$10,000 to $29,999	$30,000 to $74,999	$75,000 or more
United States	5,750	829,723	105,673	18,378	829	2,654	1,289	662	316
Alabama	4	8	1	200	4	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	235	70,727	7,858	33,439	76	41	47	35	36
Arkansas	300	101,981	12,756	42,519	-	81	62	105	52
California	1,571	302,148	41,472	26,398	-	600	579	260	132
Colorado	546	10,293	1,696	3,106	188	348	10	-	-
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	72	25,661	1,832	25,449	17	21	16	10	8
Georgia	31	6,945	267	8,597	5	11	15	-	-
Hawaii	6	(D)	(D)	(D)	5	-	-	-	1
Idaho	262	6,722	1,683	6,423	37	167	52	6	-
Illinois	3	780	110	36,667	-	-	2	1	-
Indiana	-	-	-	-	-	-	-	-	-
Iowa	3	30	2	500	3	-	-	-	-
Kansas	65	2,000	319	4,906	-	64	-	1	-
Kentucky	7	14	2	300	7	-	-	-	-
Louisiana	111	22,646	2,181	19,647	7	31	51	19	3
Maine	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-
Massachusetts	25	265	1,938	77,520	-	6	6	7	6
Michigan	2	(D)	(D)	(D)	-	2	-	-	-
Minnesota	28	668	100	3,564	-	23	5	-	-
Mississippi	111	22,360	8,208	73,948	-	17	17	30	47
Missouri	87	15,610	2,168	24,916	3	45	22	9	8
Montana	253	38,226	1,730	6,839	18	167	64	4	-
Nebraska	125	40,330	3,369	26,955	-	14	70	41	-
Nevada	144	11,890	1,486	10,321	-	97	37	10	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	11	(D)	157	14,255	-	7	2	2	-
New Mexico	533	18,892	2,981	5,592	223	236	45	26	3
New York	15	601	(D)	(D)	5	7	-	3	-
North Carolina	20	2,620	331	16,570	-	11	7	1	1
North Dakota	16	1,500	37	2,309	11	5	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Oklahoma	8	155	33	4,125	-	8	-	-	-
Oregon	182	13,039	1,814	9,965	-	162	16	1	3
Pennsylvania	7	7	(D)	(D)	-	7	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	57	(D)	84	1,465	51	2	4	-	-
South Dakota	2	(D)	(D)	(D)	-	-	2	-	-
Tennessee	15	2,556	399	26,573	-	8	-	6	1
Texas	141	47,929	2,091	14,833	-	48	63	30	-
Utah	488	27,414	2,099	4,302	123	292	60	13	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	4	(D)	(D)	(D)	2	-	2	-	-
Washington	131	6,780	3,795	28,969	44	37	5	38	7
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	7	193	156	22,271	-	5	-	1	1
Wyoming	122	25,620	1,806	14,803	-	84	28	3	7
Water Resources Regions									
Region 01 New England	25	265	1,938	77,520	-	6	6	7	6
Region 02 Mid-Atlantic	37	908	329	8,897	7	21	4	5	-
Region 03 South Atlantic-Gulf	187	35,912	(D)	(D)	77	45	42	14	9
Region 04 Great Lakes	4	140	13	3,250	-	4	-	-	-
Region 05 Ohio	10	794	112	11,210	7	-	2	1	-
Region 06 Tennessee	8	46	16	1,950	-	8	-	-	-
Region 07 Upper Mississippi	34	4,456	266	7,815	-	24	8	1	1
Region 08 Lower Mississippi	521	110,555	20,571	39,484	10	150	135	135	91
Region 09 Souris-Red-Rainy	11	(D)	(D)	(D)	6	4	1	-	-
Region 10 Missouri	554	100,086	7,110	12,833	32	312	155	48	7
Region 11 Arkansas-White-Red	106	53,317	5,048	47,624	-	40	14	32	20
Region 12 Texas-Gulf	88	28,824	837	9,515	-	43	39	6	-
Region 13 Rio Grande	624	41,147	4,579	7,339	218	279	74	50	3
Region 14 Upper Colorado	613	6,264	(D)	(D)	211	393	9	-	-
Region 15 Lower Colorado	231	73,479	9,134	39,543	52	56	47	35	41
Region 16 Great Basin	515	37,484	3,243	6,296	123	281	88	23	-
Region 17 Pacific Northwest	595	30,178	7,402	12,441	81	376	83	45	10
Region 18 California	1,581	303,248	40,315	25,500	-	612	582	260	127
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	6	(D)	(D)	(D)	5	-	-	-	1

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land leveling of previously irrigated land during survey year - con.					
	Primary purpose of expenditures					
	Water conservation		Energy conservation		Scheduled replacement or maintenance	
	Acres	Dollars	Acres	Dollars	Acres	Dollars
United States	404,558	51,321,623	38,292	8,329,062	386,873	46,022,069
Alabama	-	-	-	-	8	800
Alaska	-	-	-	-	-	-
Arizona	48,111	5,201,458	-	-	22,616	2,656,740
Arkansas	70,888	8,937,120	9,891	2,239,500	21,202	1,579,000
California	134,777	20,915,407	8,231	3,217,500	159,140	17,338,833
Colorado	(D)	689,200	(D)	695,400	5,951	311,400
Connecticut	-	-	-	-	-	-
Delaware	-	-	-	-	-	-
Florida	10,678	879,600	-	-	14,983	952,702
Georgia	4,240	55,000	-	-	2,705	211,500
Hawaii	-	-	-	-	(D)	(D)
Idaho	3,571	1,055,700	774	43,000	2,377	584,200
Illinois	-	-	-	-	780	110,000
Indiana	-	-	-	-	-	-
Iowa	-	-	-	-	30	1,500
Kansas	(D)	(D)	-	-	(D)	(D)
Kentucky	14	2,100	-	-	-	-
Louisiana	14,564	1,430,800	900	75,000	7,182	675,020
Maine	-	-	-	-	-	-
Maryland	-	-	-	-	-	-
Massachusetts	62	438,000	-	-	203	1,500,000
Michigan	(D)	(D)	-	-	-	-
Minnesota	(D)	(D)	(D)	(D)	343	74,800
Mississippi	10,839	4,648,335	1,166	464,682	10,355	3,095,250
Missouri	5,408	1,047,600	160	12,080	10,042	1,107,980
Montana	4,326	360,400	-	-	33,900	1,369,750
Nebraska	26,040	1,050,000	-	-	14,290	2,319,400
Nevada	4,179	607,500	-	-	7,711	878,690
New Hampshire	-	-	-	-	-	-
New Jersey	(D)	(D)	66	12,800	(D)	(D)
New Mexico	(D)	(D)	(D)	(D)	11,273	2,077,175
New York	-	-	-	-	601	(D)
North Carolina	6	30,000	-	-	2,614	301,400
North Dakota	-	-	-	-	1,500	36,950
Ohio	-	-	-	-	-	-
Oklahoma	(D)	(D)	-	-	(D)	(D)
Oregon	4,173	264,343	1,656	330,000	7,210	1,219,300
Pennsylvania	7	(D)	-	-	-	-
Rhode Island	-	-	-	-	-	-
South Carolina	-	-	-	-	(D)	83,500
South Dakota	(D)	(D)	-	-	-	-
Tennessee	(D)	(D)	-	-	(D)	(D)
Texas	31,861	(D)	1,800	(D)	14,268	1,355,000
Utah	15,390	870,800	858	230,100	11,166	998,411
Vermont	-	-	-	-	-	-
Virginia	(D)	(D)	-	-	-	-
Washington	674	522,440	-	-	6,106	3,272,443
West Virginia	-	-	-	-	-	-
Wisconsin	(D)	(D)	-	-	(D)	(D)
Wyoming	1,560	260,000	9,815	772,000	14,245	773,905
Water Resources Regions						
Region 01 New England	62	438,000	-	-	203	1,500,000
Region 02 Mid-Atlantic	(D)	138,900	(D)	12,800	661	177,500
Region 03 South Atlantic-Gulf	14,924	(D)	-	-	20,988	1,684,902
Region 04 Great Lakes	140	13,000	-	-	-	-
Region 05 Ohio	14	2,100	-	-	780	110,000
Region 06 Tennessee	-	-	-	-	46	15,600
Region 07 Upper Mississippi	(D)	(D)	(D)	(D)	(D)	246,700
Region 08 Lower Mississippi	63,294	12,699,255	11,666	2,730,762	35,595	5,141,170
Region 09 Souris-Red-Rainy	(D)	(D)	(D)	(D)	(D)	(D)
Region 10 Missouri	33,828	2,004,600	9,780	765,000	56,478	4,339,905
Region 11 Arkansas-White-Red	40,100	3,517,600	451	60,500	12,766	1,470,000
Region 12 Texas-Gulf	18,631	(D)	1,800	(D)	8,393	(D)
Region 13 Rio Grande	20,869	(D)	(D)	(D)	(D)	3,233,175
Region 14 Upper Colorado	2,230	512,500	(D)	702,400	(D)	(D)
Region 15 Lower Colorado	50,651	6,456,458	-	-	22,828	2,677,940
Region 16 Great Basin	18,759	1,298,300	858	230,100	17,867	1,714,101
Region 17 Pacific Northwest	6,618	1,794,483	2,430	373,000	21,130	5,234,943
Region 18 California	134,077	19,713,407	8,231	3,217,500	160,940	17,383,833
Region 19 Alaska	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	(D)	(D)

See footnote(s) at end of table.

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Table 15. **Expenditures for Irrigation Equipment, Facilities, Land Improvement, and Computer Technology: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land leveling of previously irrigated land during survey year - con.							
	Primary source of funding assistance							
	EQIP		Other USDA programs		Non-USDA assistance		No funding assistance	
	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	258	31,820	96	9,056	207	49,625	5,189	739,222
Alabama	-	-	-	-	-	-	4	8
Alaska	-	-	-	-	-	-	-	-
Arizona	3	(D)	12	(D)	4	(D)	216	61,394
Arkansas	32	10,810	6	300	17	2,050	245	88,821
California	5	2,500	-	-	50	11,556	1,516	288,092
Colorado	58	1,160	-	-	-	-	488	9,133
Connecticut	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-
Florida	2	(D)	-	-	7	(D)	63	21,416
Georgia	-	-	5	1,500	3	750	23	4,695
Hawaii	-	-	-	-	-	-	6	(D)
Idaho	43	774	-	-	5	(D)	214	(D)
Illinois	-	-	2	(D)	1	(D)	-	-
Indiana	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	3	30
Kansas	-	-	-	-	-	-	65	2,000
Kentucky	7	14	-	-	-	-	-	-
Louisiana	13	1,245	6	2,400	3	960	89	18,041
Maine	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-
Massachusetts	7	56	-	-	6	78	12	131
Michigan	-	-	-	-	-	-	2	(D)
Minnesota	-	-	-	-	1	(D)	27	(D)
Mississippi	20	3,680	-	-	11	2,420	80	16,260
Missouri	15	(D)	-	-	4	(D)	68	12,414
Montana	-	-	64	2,900	61	12,910	128	22,416
Nebraska	-	-	-	-	14	7,000	111	33,330
Nevada	-	-	-	-	7	1,316	137	10,574
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	11	(D)
New Mexico	5	100	-	-	-	-	528	18,792
New York	-	-	-	-	3	141	12	460
North Carolina	-	-	-	-	-	-	20	2,620
North Dakota	-	-	-	-	-	-	16	1,500
Ohio	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	8	155
Oregon	-	-	-	-	2	(D)	180	(D)
Pennsylvania	-	-	-	-	-	-	7	7
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	57	(D)
South Dakota	-	-	-	-	-	-	2	(D)
Tennessee	-	-	1	(D)	-	-	14	(D)
Texas	6	450	-	-	5	175	130	47,304
Utah	4	(D)	-	-	1	(D)	483	26,304
Vermont	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	4	(D)
Washington	38	38	-	-	-	-	93	6,742
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	7	193
Wyoming	-	-	-	-	2	(D)	120	(D)
Water Resources Regions								
Region 01 New England	7	56	-	-	6	78	12	131
Region 02 Mid-Atlantic	-	-	-	-	3	141	34	767
Region 03 South Atlantic-Gulf	2	(D)	5	1,500	10	(D)	170	29,417
Region 04 Great Lakes	-	-	-	-	-	-	4	140
Region 05 Ohio	7	14	2	(D)	1	(D)	-	-
Region 06 Tennessee	-	-	-	-	-	-	8	46
Region 07 Upper Mississippi	-	-	-	-	1	(D)	33	(D)
Region 08 Lower Mississippi	74	17,671	13	4,300	33	6,150	401	82,434
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	11	(D)
Region 10 Missouri	-	-	64	(D)	77	22,310	413	(D)
Region 11 Arkansas-White-Red	6	(D)	-	-	2	(D)	98	52,777
Region 12 Texas-Gulf	6	450	-	-	-	-	82	28,374
Region 13 Rio Grande	63	1,260	-	-	5	175	556	39,712
Region 14 Upper Colorado	-	-	-	-	-	-	613	6,264
Region 15 Lower Colorado	8	(D)	12	(D)	4	(D)	207	61,646
Region 16 Great Basin	4	500	-	-	8	1,926	503	35,058
Region 17 Pacific Northwest	81	812	-	-	7	454	507	28,912
Region 18 California	-	-	-	-	50	11,556	1,531	291,692
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	6	(D)

[1] May not add due to rounding.

Table 16. **Expenses for Hired and Contract Irrigation Labor: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Acres irrigated on farms with any hired or contract labor (see text)	Total irrigation hired and contract labor expenses ($1,000)	Hired labor					Contract labor		
				Farms	Expenses ($1,000)	Average hours of hired labor	Average labor rate per hour per farm (dollars)	Average labor expense per farm (dollars)	Farms	Expenses ($1,000)	Average per farm (dollars)
United States	38,209	20,812,193	949,929	33,717	789,315	2,073	11.29	23,410	6,099	160,613	26,334
Alabama	107	25,243	2,052	105	2,006	1,640	11.65	19,102	6	46	7,667
Alaska	19	168	34	19	34	174	10.19	1,775	-	-	-
Arizona	964	464,415	23,711	934	18,457	2,102	9.40	19,761	68	5,254	77,268
Arkansas	889	1,904,345	17,099	883	16,124	1,722	10.60	18,260	61	975	15,991
California	10,766	4,269,817	495,111	9,313	391,229	3,757	11.18	42,009	2,028	103,882	51,224
Colorado	948	579,275	13,081	901	11,906	1,109	11.92	13,215	128	1,175	9,181
Connecticut	140	1,874	1,416	125	1,341	865	12.40	10,728	22	75	3,423
Delaware	45	24,169	271	43	142	250	13.16	3,293	11	130	11,804
Florida	1,507	556,464	32,309	1,286	23,017	1,658	10.79	17,898	419	9,292	22,176
Georgia	521	401,477	7,853	494	6,161	1,044	11.94	12,471	69	1,693	24,531
Hawaii	114	56,431	2,568	98	2,401	1,675	14.62	24,495	25	168	6,712
Idaho	2,523	1,587,602	59,900	1,926	53,616	2,638	10.55	27,838	706	6,284	8,901
Illinois	274	95,034	2,975	263	2,395	834	10.92	9,107	35	580	16,575
Indiana	224	82,739	2,774	218	2,700	1,013	12.23	12,384	20	74	3,723
Iowa	115	42,339	478	101	452	350	12.80	4,480	16	25	1,586
Kansas	897	791,009	14,625	746	11,204	921	16.31	15,019	180	3,422	19,009
Kentucky	129	16,150	2,158	122	2,104	1,496	11.53	17,247	8	54	6,713
Louisiana	285	263,445	2,214	263	1,639	632	9.86	6,231	36	576	15,989
Maine	105	15,944	1,748	92	1,568	1,331	12.81	17,043	9	180	20,000
Maryland	157	15,706	2,376	142	2,332	1,467	11.20	16,419	5	44	8,800
Massachusetts	242	11,525	2,934	204	(D)	1,182	(D)	(D)	8	(D)	(D)
Michigan	617	183,053	6,528	595	6,326	899	11.83	10,632	37	202	5,464
Minnesota	254	139,532	2,782	243	2,668	946	11.60	10,979	21	114	5,451
Mississippi	714	1,245,384	8,909	678	7,686	1,001	11.33	11,336	55	1,223	22,236
Missouri	375	444,511	5,130	339	4,832	1,203	11.85	14,252	14	299	21,343
Montana	884	611,701	6,105	863	5,802	580	11.59	6,723	31	303	9,768
Nebraska	1,769	1,980,076	11,062	1,482	10,355	488	14.31	6,987	129	708	5,486
Nevada	383	227,749	4,384	319	3,774	1,015	11.66	11,832	98	609	6,218
New Hampshire	102	3,055	640	65	(D)	568	(D)	(D)	12	(D)	(D)
New Jersey	207	28,412	3,858	169	3,696	1,400	15.62	21,872	7	162	23,071
New Mexico	785	261,109	11,665	712	10,282	1,545	9.35	14,441	171	1,383	8,088
New York	376	18,752	2,746	285	2,462	852	10.14	8,640	63	284	4,504
North Carolina	432	39,424	4,212	407	3,772	788	11.75	9,268	47	440	9,365
North Dakota	64	50,880	1,451	61	1,438	1,511	15.60	23,573	6	14	2,250
Ohio	336	16,352	4,105	322	4,007	971	12.82	12,445	11	98	8,864
Oklahoma	255	86,366	1,889	225	1,674	653	11.40	7,441	31	215	6,942
Oregon	2,087	693,354	33,039	1,774	31,133	1,435	12.23	17,549	367	1,906	5,194
Pennsylvania	347	7,515	1,173	299	1,062	280	12.67	3,552	21	111	5,269
Rhode Island	33	199	94	30	94	306	10.30	3,148	-	-	-
South Carolina	133	15,976	721	127	(D)	500	(D)	(D)	2	(D)	(D)
South Dakota	81	33,176	446	71	423	364	16.39	5,963	5	23	4,600
Tennessee	138	27,947	1,492	131	1,454	1,136	9.77	11,096	12	38	3,197
Texas	2,321	1,636,611	51,634	2,072	42,372	1,925	10.62	20,450	337	9,262	27,484
Utah	1,222	353,059	10,081	1,106	8,043	712	10.22	7,272	317	2,039	6,431
Vermont	120	1,315	625	90	(D)	239	(D)	(D)	14	(D)	(D)
Virginia	251	19,355	5,641	251	5,472	2,088	10.44	21,800	21	169	8,057
Washington	1,862	752,761	69,017	1,759	64,183	3,004	12.15	36,489	200	4,834	24,170
West Virginia	33	359	104	33	(D)	282	(D)	(D)	1	(D)	(D)
Wisconsin	381	220,514	6,397	372	5,754	933	16.58	15,468	26	643	24,712
Wyoming	676	508,525	6,306	559	5,374	767	12.53	9,614	183	932	5,092
Water Resources Regions											
Region 01 New England	699	32,871	6,869	541	6,429	962	12.35	11,884	87	440	5,055
Region 02 Mid-Atlantic	1,147	102,948	14,231	1,023	13,324	1,116	11.67	13,025	86	907	10,545
Region 03 South Atlantic-Gulf	2,758	1,049,393	52,351	2,483	39,863	1,410	11.39	16,055	573	12,487	21,793
Region 04 Great Lakes	1,069	255,224	11,710	999	11,142	946	11.79	11,153	59	569	9,641
Region 05 Ohio	599	73,946	6,986	566	6,745	996	11.96	11,918	45	240	5,343
Region 06 Tennessee	125	15,156	988	114	983	903	9.55	8,621	7	5	783
Region 07 Upper Mississippi	903	433,937	11,435	869	10,096	849	13.69	11,618	92	1,339	14,558
Region 08 Lower Mississippi	1,975	3,561,188	26,121	1,883	24,406	1,231	10.53	12,961	112	1,714	15,307
Region 09 Souris-Red-Rainy	43	45,652	673	43	644	990	15.14	14,979	7	29	4,071
Region 10 Missouri	3,945	3,526,009	33,464	3,479	30,483	667	13.14	8,762	354	2,982	8,423
Region 11 Arkansas-White-Red	1,365	1,526,913	29,774	1,108	23,300	1,504	13.98	21,029	367	6,475	17,642
Region 12 Texas-Gulf	1,941	1,095,348	37,641	1,804	31,660	1,778	9.87	17,550	202	5,981	29,607
Region 13 Rio Grande	800	260,135	10,697	759	9,355	1,209	10.19	12,325	149	1,343	9,011
Region 14 Upper Colorado	700	367,317	8,193	676	6,440	945	10.08	9,527	129	1,753	13,586
Region 15 Lower Colorado	1,065	475,074	25,743	1,035	20,344	2,074	9.48	19,656	78	5,398	69,208
Region 16 Great Basin	1,605	524,345	11,589	1,193	10,109	805	10.53	8,473	544	1,480	2,721
Region 17 Pacific Northwest	6,515	3,060,969	162,740	5,664	149,325	2,283	11.55	26,364	1,152	13,415	11,645
Region 18 California	10,822	4,349,169	496,122	9,361	392,233	3,747	11.18	41,901	2,031	103,889	51,152
Region 19 Alaska	19	168	34	19	34	174	10.19	1,775	-	-	-
Region 20 Hawaii	114	56,431	2,568	98	2,401	1,675	14.62	24,495	25	168	6,712

Table 17. **Farms With Diminished Crop Yields Resulting From Irrigation Interruption by Cause: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total [1]		Shortage of surface water		Shortage of ground water		Irrigation equipment failure	
	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]
United States	34,766	9,696,808	20,032	5,359,538	5,821	2,090,700	5,625	2,532,714
Alabama	82	8,801	8	2,200	8	80	17	4,063
Alaska	16	27	5	5	2	(D)	5	10
Arizona	828	78,170	480	45,975	217	25,823	304	25,665
Arkansas	342	356,770	123	148,551	62	91,956	70	132,252
California	4,242	1,046,482	2,192	731,524	1,884	438,744	631	229,596
Colorado	4,053	907,993	3,265	725,559	240	185,630	402	84,425
Connecticut	31	34	7	7	14	14	3	6
Delaware	31	12,904	-	-	-	-	14	4,946
Florida	553	102,164	52	80,183	7	(D)	114	9,607
Georgia	198	89,104	25	11,550	4	2,800	44	49,259
Hawaii	112	(D)	42	(D)	14	(D)	31	684
Idaho	2,869	872,915	2,257	645,712	180	88,040	291	194,566
Illinois	107	63,952	12	2,398	1	(D)	42	13,864
Indiana	72	16,214	6	1,260	-	-	50	12,507
Iowa	71	8,776	23	1,660	8	272	21	6,148
Kansas	719	446,890	99	28,978	156	117,080	155	126,629
Kentucky	65	514	33	447	-	-	-	-
Louisiana	89	36,195	4	8,115	1	(D)	23	11,734
Maine	22	928	-	-	-	-	9	36
Maryland	103	(D)	13	2,065	5	10	29	2,988
Massachusetts	28	243	6	54	-	-	-	-
Michigan	166	46,783	30	(D)	9	2,875	95	32,234
Minnesota	188	54,146	39	7,949	4	1,684	129	40,220
Mississippi	64	52,696	20	3,097	-	-	18	31,906
Missouri	243	43,078	91	9,557	44	2,772	71	21,689
Montana	1,450	579,957	1,244	499,401	113	23,925	86	90,799
Nebraska	2,159	1,236,114	614	438,160	57	38,655	411	428,932
Nevada	1,083	387,593	962	359,578	176	61,260	50	26,199
New Hampshire	31	1,807	12	1,780	10	18	8	1,760
New Jersey	27	1,951	2	(D)	1	(D)	12	422
New Mexico	2,974	205,384	2,207	104,540	314	47,429	155	70,737
New York	86	1,105	28	128	11	23	19	88
North Carolina	244	(D)	-	-	81	155	24	1,016
North Dakota	84	18,995	17	2,279	-	-	34	12,039
Ohio	58	1,790	22	40	-	-	13	(D)
Oklahoma	320	73,428	71	10,164	85	23,349	133	44,755
Oregon	1,820	418,008	1,060	335,076	115	24,576	249	41,718
Pennsylvania	81	836	6	84	9	39	27	(D)
Rhode Island	5	(D)	-	-	-	-	4	8
South Carolina	56	4,759	-	-	-	-	11	(D)
South Dakota	105	28,374	21	3,758	-	-	63	16,035
Tennessee	60	(D)	2	(D)	-	-	11	3,570
Texas	2,675	1,190,514	830	216,500	1,205	685,149	779	528,830
Utah	3,723	456,241	2,931	363,467	484	78,875	549	74,561
Vermont	31	(D)	-	-	-	-	18	47
Virginia	39	(D)	4	3,233	-	-	7	1,793
Washington	724	157,879	21	20,972	188	46,503	92	58,948
West Virginia	9	48	9	48	3	42	3	42
Wisconsin	132	45,614	37	2,662	5	50	62	30,463
Wyoming	1,496	577,177	1,100	496,613	104	30,592	237	63,224
Water Resources Regions								
Region 01 New England	117	3,210	25	1,841	24	32	24	1,810
Region 02 Mid-Atlantic	307	28,545	46	5,381	15	329	100	9,769
Region 03 South Atlantic-Gulf	1,140	206,494	84	92,456	96	(D)	214	63,352
Region 04 Great Lakes	305	58,239	75	(D)	15	2,893	150	39,986
Region 05 Ohio	209	(D)	62	2,357	8	52	53	7,489
Region 06 Tennessee	50	(D)	4	2,040	4	64	12	3,210
Region 07 Upper Mississippi	448	153,148	74	9,749	16	1,966	232	85,402
Region 08 Lower Mississippi	369	410,765	95	138,892	56	91,950	124	171,111
Region 09 Souris-Red-Rainy	66	(D)	13	3,412	-	-	28	9,901
Region 10 Missouri	5,889	2,585,791	2,918	1,410,745	356	191,273	1,083	644,058
Region 11 Arkansas-White-Red	2,152	832,329	1,094	267,644	370	242,049	349	241,281
Region 12 Texas-Gulf	2,323	1,033,608	562	180,847	1,153	632,730	722	475,840
Region 13 Rio Grande	3,123	243,570	2,512	174,705	293	77,223	131	29,957
Region 14 Upper Colorado	3,617	647,681	2,954	508,416	272	(D)	406	98,112
Region 15 Lower Colorado	1,052	93,082	598	55,373	217	25,823	406	26,379
Region 16 Great Basin	3,599	724,802	3,061	622,903	559	138,711	281	88,735
Region 17 Pacific Northwest	5,505	1,497,565	3,565	1,072,533	467	135,330	592	300,143
Region 18 California	4,367	1,093,163	2,243	764,281	1,884	438,744	682	235,485
Region 19 Alaska	16	27	5	5	2	(D)	5	10
Region 20 Hawaii	112	(D)	42	(D)	14	(D)	31	684

See footnote(s) at end of table.

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Table 17. **Farms With Diminished Crop Yields Resulting From Irrigation Interruption by Cause: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Energy price increases or energy shortage		Water salinity too high [3]		Loss of water rights		Cost of purchased water		Other	
	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]	Farms	Total acres irrigated [2]
United States	1,511	504,208	374	226,547	457	220,415	2,707	343,558	7,439	1,843,410
Alabama	4	16	-	-	-	-	3	6	54	2,480
Alaska	-	-	-	-	-	-	3	3	11	16
Arizona	114	114	1	(D)	10	(D)	135	3,834	362	24,291
Arkansas	-	-	11	13,400	-	-	20	22,486	150	114,059
California	162	69,802	41	61,183	13	30,008	1,212	87,567	351	118,995
Colorado	20	6,460	2	(D)	12	9,989	277	35,140	358	78,672
Connecticut	-	-	-	-	-	-	-	-	7	7
Delaware	-	-	-	-	-	-	-	-	17	7,958
Florida	25	2,351	6	18	6	18	6	18	388	10,085
Georgia	23	5,975	8	4,400	-	-	-	-	127	29,870
Hawaii	18	(D)	7	7	7	7	52	253	24	644
Idaho	65	58,094	-	-	71	24,406	342	53,313	254	87,827
Illinois	19	37,892	-	-	-	-	12	12	27	11,850
Indiana	-	-	-	-	-	-	-	-	21	4,642
Iowa	8	230	-	-	-	-	-	-	13	1,306
Kansas	3	(D)	-	-	21	21,000	-	-	409	223,393
Kentucky	-	-	-	-	-	-	5	300	37	(D)
Louisiana	11	1,421	-	-	-	-	26	2,113	36	14,233
Maine	-	-	-	-	-	-	-	-	13	892
Maryland	2	(D)	-	-	-	-	21	42	59	3,266
Massachusetts	6	54	-	-	-	-	7	7	22	(D)
Michigan	26	9,265	-	-	-	-	-	-	51	12,880
Minnesota	11	4,115	-	-	-	-	11	(D)	40	7,750
Mississippi	6	18	-	-	-	-	-	-	26	17,681
Missouri	6	3,288	2	(D)	2	(D)	8	276	78	10,824
Montana	-	-	13	12,618	74	59,237	-	-	187	121,732
Nebraska	42	25,200	-	-	1	(D)	14	12,740	1,256	396,186
Nevada	25	23,802	3	2,700	10	4,590	8	17,426	75	26,282
New Hampshire	-	-	-	-	-	-	-	-	13	13
New Jersey	3	485	1	(D)	-	-	3	144	12	919
New Mexico	185	13,710	6	5,877	3	3,000	73	6,376	402	26,493
New York	12	30	-	-	-	-	6	12	34	872
North Carolina	9	297	-	-	-	-	-	-	146	4,316
North Dakota	12	6,312	-	-	-	-	7	21	23	2,406
Ohio	-	-	-	-	-	-	13	117	19	1,103
Oklahoma	70	6,749	25	7,377	-	-	30	30	62	5,592
Oregon	96	28,036	6	13,582	32	15,480	117	8,010	405	62,227
Pennsylvania	15	63	-	-	-	-	7	196	32	445
Rhode Island	-	-	-	-	-	-	-	-	1	(D)
South Carolina	-	-	-	-	-	-	-	-	45	(D)
South Dakota	16	(D)	-	-	-	-	-	-	19	6,981
Tennessee	-	-	-	-	-	-	14	68	39	1,575
Texas	180	95,726	127	91,440	11	13,800	120	67,407	508	227,865
Utah	151	13,910	112	8,070	174	19,197	143	18,118	575	40,799
Vermont	3	48	-	-	-	-	8	24	10	19
Virginia	7	49	-	-	-	-	-	-	24	753
Washington	75	5,955	-	-	6	7,377	-	-	368	44,170
West Virginia	3	42	3	42	3	42	3	42	3	42
Wisconsin	24	25,577	-	-	-	-	-	-	34	7,733
Wyoming	54	8,564	-	-	1	(D)	1	(D)	212	76,834
Water Resources Regions										
Region 01 New England	6	54	-	-	-	-	7	7	56	1,291
Region 02 Mid-Atlantic	26	1,366	1	(D)	-	-	30	198	151	13,781
Region 03 South Atlantic-Gulf	74	(D)	14	4,418	6	18	9	24	762	50,292
Region 04 Great Lakes	32	10,833	-	-	-	-	10	32	100	14,491
Region 05 Ohio	9	54	3	42	3	42	34	679	84	12,073
Region 06 Tennessee	-	-	-	-	-	-	6	36	30	327
Region 07 Upper Mississippi	56	66,069	-	-	-	-	23	969	117	20,359
Region 08 Lower Mississippi	15	4,445	11	13,400	-	-	34	6,593	124	117,223
Region 09 Souris-Red-Rainy	9	4,854	-	-	-	-	7	21	15	3,924
Region 10 Missouri	122	39,596	13	11,318	36	71,761	159	39,269	2,065	685,112
Region 11 Arkansas-White-Red	71	14,489	30	17,377	1	(D)	101	24,349	556	248,497
Region 12 Texas-Gulf	182	97,966	122	81,440	6	9,300	125	71,267	494	176,256
Region 13 Rio Grande	203	17,930	6	5,877	19	17,004	68	2,516	261	17,629
Region 14 Upper Colorado	103	3,090	103	(D)	111	(D)	202	16,334	550	70,126
Region 15 Lower Colorado	114	114	1	(D)	10	(D)	135	3,834	366	29,091
Region 16 Great Basin	84	44,523	12	7,680	73	15,149	32	32,985	250	38,409
Region 17 Pacific Northwest	172	71,470	10	15,838	163	49,526	458	56,622	1,048	214,194
Region 18 California	215	80,516	41	61,183	22	40,670	1,212	87,567	375	129,675
Region 19 Alaska	-	-	-	-	-	-	3	3	11	16
Region 20 Hawaii	18	(D)	7	7	7	7	52	253	24	644

[1] Detail may not add to total because respondents could check more than one cause.
[2] This is the total irrigated acres on the operation and not the acres affected by irrigation interruption.
[3] The wording for this item in 2008 was "Poor water quality."

Table 18. **Irrigated Farms by Size of Farm: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total			1 to 49 acres			50 to 99 acres		
	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated
United States	229,237	213,993,983	55,319,417	104,955	1,590,590	887,825	22,462	1,590,733	848,200
Alabama	1,022	504,646	101,178	514	9,004	2,256	90	5,941	1,223
Alaska	181	7,717	1,071	142	(D)	270	21	1,671	(D)
Arizona	4,380	5,045,635	851,861	2,744	30,872	18,944	201	13,782	9,226
Arkansas	4,212	6,142,871	4,950,053	493	11,623	4,003	153	10,980	7,572
California	44,347	15,204,700	7,549,161	29,648	408,054	277,894	3,823	261,346	203,813
Colorado	12,501	11,929,608	2,309,543	5,054	96,430	62,213	1,364	100,391	69,295
Connecticut	715	42,815	5,371	559	6,433	1,349	83	5,919	741
Delaware	396	285,716	114,769	95	823	288	15	993	586
Florida	8,120	3,092,536	1,364,559	5,544	68,865	37,427	818	55,493	24,230
Georgia	3,545	3,157,131	1,196,947	881	19,240	5,316	274	17,180	5,185
Hawaii	1,919	237,937	76,459	1,781	14,713	7,207	33	2,032	595
Idaho	14,092	7,171,848	3,511,839	5,964	87,409	67,713	1,941	142,755	96,543
Illinois	1,807	1,711,314	541,818	551	8,274	1,868	115	8,546	3,095
Indiana	1,893	1,589,508	454,712	626	11,039	1,891	171	11,807	1,272
Iowa	1,090	689,083	175,847	374	5,327	924	91	6,368	666
Kansas	5,243	13,099,354	2,851,317	365	5,498	2,328	69	6,089	186
Kentucky	1,212	421,519	51,126	569	8,981	1,286	186	13,303	793
Louisiana	2,130	2,215,984	1,096,381	487	7,023	1,828	227	15,737	7,095
Maine	946	170,958	20,817	581	8,533	(D)	165	11,240	629
Maryland	890	330,962	100,909	393	6,505	1,202	126	(D)	(D)
Massachusetts	1,398	113,354	27,230	931	14,845	(D)	187	13,366	2,664
Michigan	3,662	1,567,036	587,850	1,416	23,456	5,145	520	36,221	8,427
Minnesota	2,162	1,686,988	516,724	469	7,299	1,251	196	14,130	3,671
Mississippi	1,843	2,768,094	1,701,587	353	6,087	1,799	83	6,384	3,877
Missouri	2,569	2,214,797	1,235,334	566	10,240	1,237	208	14,252	2,305
Montana	7,384	18,929,369	1,872,389	2,151	44,267	24,527	690	54,063	37,191
Nebraska	15,747	21,609,278	8,297,560	856	19,008	10,901	627	42,233	29,834
Nevada	2,149	4,514,652	689,953	778	14,566	11,074	248	17,835	11,366
New Hampshire	528	24,712	4,020	382	5,238	962	74	(D)	241
New Jersey	1,255	208,657	80,777	712	11,789	4,669	137	(D)	4,950
New Mexico	8,733	8,534,856	694,632	6,293	70,508	45,699	691	46,664	24,997
New York	1,936	317,725	48,705	1,018	12,016	4,024	330	23,959	3,030
North Carolina	2,710	853,125	136,721	1,403	23,367	4,127	443	31,421	6,212
North Dakota	533	1,404,283	213,728	76	1,006	233	5	310	310
Ohio	1,453	228,773	41,776	854	13,547	2,417	214	(D)	1,708
Oklahoma	1,672	2,594,056	426,602	405	6,915	1,104	43	3,517	1,121
Oregon	12,299	9,151,996	1,554,173	6,538	131,749	68,166	1,896	130,704	80,220
Pennsylvania	3,126	350,717	24,027	2,015	34,398	5,587	481	33,360	3,838
Rhode Island	294	10,557	3,042	231	2,332	(D)	43	(D)	787
South Carolina	1,046	486,463	133,927	454	6,182	1,820	174	12,305	1,635
South Dakota	1,274	2,634,711	369,864	112	1,381	181	36	2,820	1,039
Tennessee	1,108	823,553	146,932	507	8,971	1,475	129	9,108	919
Texas	13,259	31,127,299	4,491,987	3,576	48,158	25,291	1,197	82,245	30,714
Utah	10,357	4,734,792	1,125,106	5,695	98,504	73,719	1,241	88,262	52,707
Vermont	567	29,362	2,324	384	5,638	754	86	6,353	370
Virginia	1,342	358,107	50,100	664	8,570	1,742	218	15,277	1,678
Washington	10,575	4,347,898	1,623,389	6,416	90,748	58,899	1,435	111,186	68,156
West Virginia	297	45,652	1,453	124	(D)	331	66	4,829	178
Wisconsin	2,427	1,372,536	473,483	955	17,627	2,750	266	18,275	2,806
Wyoming	4,891	17,898,743	1,418,284	1,256	34,281	25,960	532	39,458	26,491
Water Resources Regions									
Region 01 New England	4,098	370,371	60,990	2,848	38,633	8,283	574	39,560	5,159
Region 02 Mid-Atlantic	7,325	1,532,811	391,761	3,991	61,275	15,332	1,131	79,880	15,551
Region 03 South Atlantic-Gulf	16,745	8,330,845	2,946,118	8,880	126,949	52,329	1,798	122,798	39,904
Region 04 Great Lakes	6,462	2,326,517	821,148	2,853	47,133	9,639	934	64,189	11,214
Region 05 Ohio	4,554	1,865,938	356,743	2,172	34,777	4,962	634	44,373	3,290
Region 06 Tennessee	1,139	390,596	57,924	628	11,580	1,290	167	11,583	(D)
Region 07 Upper Mississippi	6,665	4,846,746	1,534,692	2,028	33,276	5,766	515	37,712	8,885
Region 08 Lower Mississippi	7,682	11,604,745	8,013,711	915	17,441	5,991	374	26,581	17,326
Region 09 Souris-Red-Rainy	466	946,911	175,244	73	(D)	233	11	600	11
Region 10 Missouri	33,574	69,817,497	13,599,516	4,844	109,177	66,267	2,042	150,064	85,376
Region 11 Arkansas-White-Red	10,446	21,425,664	5,228,308	1,590	19,211	5,440	530	42,166	10,354
Region 12 Texas-Gulf	10,567	16,472,029	3,030,034	3,096	40,175	20,370	1,059	69,318	32,072
Region 13 Rio Grande	9,195	16,316,788	802,641	6,666	84,894	53,973	607	40,556	20,556
Region 14 Upper Colorado	10,352	7,226,077	1,321,954	4,606	85,247	57,335	1,589	115,309	84,919
Region 15 Lower Colorado	5,092	5,775,810	916,132	3,070	35,352	21,440	296	20,921	12,830
Region 16 Great Basin	9,441	7,383,147	1,558,309	4,866	87,389	67,210	707	48,549	28,648
Region 17 Pacific Northwest	38,443	21,543,550	6,725,486	19,959	321,961	196,677	5,569	408,501	263,494
Region 18 California	44,891	15,572,287	7,701,176	29,947	419,032	287,811	3,871	264,370	206,837
Region 19 Alaska	181	7,717	1,071	142	(D)	270	21	1,671	(D)
Region 20 Hawaii	1,919	237,937	76,459	1,781	14,713	7,207	33	2,032	595

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Table 18. **Irrigated Farms by Size of Farm: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	100 to 219 acres			220 to 499 acres			500 to 999 acres		
	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated
United States	21,512	3,173,871	1,648,248	19,691	6,826,420	3,847,577	19,395	13,739,140	6,973,060
Alabama	127	20,412	5,454	83	28,299	5,268	68	48,733	9,957
Alaska	9	1,433	(D)	8	2,450	265	1	(D)	(D)
Arizona	331	54,400	21,233	298	90,348	44,684	223	158,574	105,954
Arkansas	340	54,322	34,356	445	148,116	82,294	716	540,946	389,778
California	3,160	455,382	370,209	2,886	993,589	926,446	1,739	1,255,991	1,091,354
Colorado	1,510	214,373	123,126	1,131	391,720	223,232	1,244	850,272	299,780
Connecticut	27	3,760	(D)	25	8,778	1,248	11	6,284	(D)
Delaware	64	10,078	3,083	50	16,965	8,403	71	50,020	20,014
Florida	595	83,899	47,194	372	125,095	64,370	272	183,888	98,375
Georgia	426	71,302	17,204	421	145,951	56,889	530	365,349	157,062
Hawaii	53	7,967	(D)	7	2,128	414	9	6,964	709
Idaho	2,078	304,631	180,614	1,308	443,393	344,121	1,121	812,777	415,753
Illinois	133	22,596	8,216	186	62,844	27,912	279	202,114	71,811
Indiana	123	17,867	5,185	200	67,049	28,782	254	174,007	57,940
Iowa	143	22,509	3,783	123	44,182	15,393	131	93,839	29,614
Kansas	124	19,796	10,262	407	141,342	65,592	828	600,105	233,312
Kentucky	208	30,293	2,876	107	35,856	2,569	57	36,313	4,245
Louisiana	158	24,690	12,485	231	81,344	44,090	274	199,398	110,328
Maine	122	16,822	(D)	52	17,419	889	10	(D)	1,115
Maryland	87	14,086	4,993	92	30,533	13,332	90	62,596	25,380
Massachusetts	196	28,856	6,841	57	16,545	4,092	15	(D)	4,901
Michigan	521	85,897	26,499	362	118,345	42,061	387	279,860	98,560
Minnesota	227	35,591	14,016	375	117,453	50,608	405	284,112	96,605
Mississippi	108	17,648	7,508	174	56,131	27,515	233	167,296	109,570
Missouri	351	55,016	16,432	409	140,467	50,170	285	214,979	119,290
Montana	639	94,067	55,416	943	305,021	147,636	603	465,995	252,922
Nebraska	1,014	155,796	124,134	3,043	1,186,624	633,813	3,967	2,799,428	1,397,620
Nevada	336	53,534	23,759	193	65,201	42,269	215	149,084	97,263
New Hampshire	51	7,553	(D)	20	6,492	1,797	1	(D)	(D)
New Jersey	178	25,394	(D)	117	37,170	16,335	65	43,220	20,250
New Mexico	378	53,085	27,303	276	85,216	52,263	350	232,928	94,749
New York	313	42,981	6,243	124	36,237	8,760	108	63,030	12,030
North Carolina	293	37,974	8,111	183	62,544	18,894	159	105,275	15,388
North Dakota	13	2,096	1,550	26	9,538	5,860	43	29,210	20,624
Ohio	170	23,784	3,570	109	36,459	3,170	53	37,857	9,568
Oklahoma	153	23,452	4,640	182	61,859	20,799	221	160,496	42,788
Oregon	1,481	203,464	93,121	546	189,289	90,398	514	338,876	225,126
Pennsylvania	385	53,030	(D)	119	37,259	3,830	83	55,357	(D)
Rhode Island	15	2,249	1,317	4	(D)	(D)	-	-	-
South Carolina	108	18,862	3,682	97	31,947	7,895	51	36,148	13,445
South Dakota	116	18,711	6,952	227	82,346	29,783	186	126,844	42,889
Tennessee	130	19,333	2,919	79	25,007	6,035	56	36,529	7,878
Texas	1,187	175,007	58,871	1,066	416,838	202,198	1,778	1,270,332	517,296
Utah	1,244	186,130	121,172	994	320,222	181,424	404	278,583	148,935
Vermont	79	12,331	850	17	(D)	(D)	1	(D)	(D)
Virginia	225	30,420	3,566	86	27,320	5,998	43	29,114	5,846
Washington	942	136,564	101,069	669	217,696	124,122	406	274,380	233,243
West Virginia	77	10,932	(D)	15	3,926	291	8	(D)	8
Wisconsin	219	33,688	12,165	344	117,077	32,986	222	167,583	63,512
Wyoming	545	79,808	48,731	403	133,195	79,846	605	421,934	197,570
Water Resources Regions									
Region 01 New England	433	62,088	9,537	167	52,679	8,442	37	22,634	7,070
Region 02 Mid-Atlantic	937	132,275	28,379	522	165,749	53,158	377	250,850	80,647
Region 03 South Atlantic-Gulf	1,615	243,574	83,422	1,190	402,712	152,713	1,103	756,658	300,634
Region 04 Great Lakes	854	133,335	32,584	607	200,205	61,711	525	378,332	135,684
Region 05 Ohio	618	89,662	11,914	361	119,030	23,896	304	205,693	43,792
Region 06 Tennessee	132	18,003	(D)	74	23,537	5,466	45	27,953	(D)
Region 07 Upper Mississippi	690	112,070	33,282	913	298,760	116,902	970	693,786	234,373
Region 08 Lower Mississippi	537	83,837	50,012	770	259,933	171,106	1,231	910,215	627,249
Region 09 Souris-Red-Rainy	62	8,719	2,438	26	9,090	3,486	50	(D)	10,504
Region 10 Missouri	2,563	378,526	263,592	5,019	1,868,044	992,379	6,059	4,300,466	2,043,236
Region 11 Arkansas-White-Red	713	108,202	38,787	949	335,667	133,989	1,658	1,202,852	481,641
Region 12 Texas-Gulf	912	133,380	50,922	965	365,288	169,982	1,437	1,007,675	372,375
Region 13 Rio Grande	387	57,547	32,967	278	89,750	62,050	326	205,726	111,447
Region 14 Upper Colorado	1,551	225,349	112,389	990	331,052	168,299	551	383,321	164,902
Region 15 Lower Colorado	486	78,086	27,893	301	91,308	45,404	304	211,908	120,522
Region 16 Great Basin	1,446	210,225	110,941	903	298,373	168,642	525	379,495	212,952
Region 17 Pacific Northwest	4,308	627,142	377,984	2,738	911,471	577,987	2,108	1,480,744	911,528
Region 18 California	3,206	462,451	376,048	2,903	999,194	931,286	1,775	1,279,428	1,109,045
Region 19 Alaska	9	1,433	(D)	8	2,450	265	1	(D)	(D)
Region 20 Hawaii	53	7,967	(D)	7	2,128	414	9	6,964	709

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Table 18. **Irrigated Farms by Size of Farm: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	1,000 to 1,999 acres			2,000 to 4,999 acres			5,000 acres or more		
	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated	Farms	Land in farms (acres)	Acres irrigated
United States	18,198	25,402,651	11,464,123	15,040	45,179,105	16,071,310	7,984	116,491,473	13,579,074
Alabama	53	68,750	17,702	64	177,025	39,310	23	146,482	20,008
Alaska	-	-	-	-	-	-	-	-	-
Arizona	230	335,672	143,361	139	433,111	284,093	214	3,928,876	224,366
Arkansas	899	1,281,238	1,045,671	984	2,819,706	2,387,226	182	1,275,940	999,153
California	1,362	1,853,001	1,372,239	1,367	4,293,850	1,417,009	362	5,683,487	1,890,197
Colorado	843	1,146,436	437,596	727	2,274,605	540,826	628	6,855,381	553,475
Connecticut	10	11,641	(D)	-	-	-	-	-	-
Delaware	65	91,531	42,482	32	89,549	32,252	4	25,757	7,661
Florida	246	341,059	171,956	143	378,162	151,947	130	1,856,075	769,060
Georgia	536	714,870	289,222	387	1,082,197	462,074	90	741,042	203,995
Hawaii	13	16,867	7,034	15	44,178	15,128	8	143,088	(D)
Idaho	929	1,224,676	655,100	529	1,628,342	876,424	222	2,527,865	875,571
Illinois	277	379,639	128,494	230	678,558	199,569	36	348,743	100,853
Indiana	233	313,417	112,400	249	697,985	202,904	37	296,337	44,338
Iowa	150	215,268	59,996	65	174,206	47,795	13	127,384	17,676
Kansas	1,250	1,843,811	537,769	1,562	4,967,578	1,093,286	638	5,515,135	908,582
Kentucky	43	53,025	6,475	28	76,161	12,030	14	167,587	20,852
Louisiana	371	526,006	281,654	322	892,844	434,589	60	468,942	204,312
Maine	2	(D)	(D)	12	(D)	(D)	2	(D)	(D)
Maryland	66	94,800	29,444	35	106,191	24,475	1	(D)	(D)
Massachusetts	11	(D)	2,924	-	-	-	1	(D)	(D)
Michigan	274	375,781	137,443	152	431,012	164,739	30	216,464	104,976
Minnesota	308	436,513	127,767	149	458,454	134,461	33	333,436	88,345
Mississippi	425	618,959	329,153	370	1,160,531	766,530	97	735,058	455,635
Missouri	395	567,276	320,495	304	865,354	501,508	51	347,213	223,897
Montana	652	931,928	222,570	648	1,941,145	358,340	1,058	15,092,883	773,787
Nebraska	3,358	4,568,411	2,464,326	2,156	6,414,894	2,512,376	726	6,422,884	1,124,556
Nevada	124	179,302	68,383	124	412,469	164,398	131	3,622,661	271,441
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	36	46,686	16,858	9	20,682	7,340	1	(D)	(D)
New Mexico	231	324,504	74,567	211	659,262	164,913	303	7,062,689	210,141
New York	24	37,036	3,280	8	25,140	3,630	11	77,326	7,708
North Carolina	143	199,218	30,233	74	221,781	40,051	12	171,545	13,705
North Dakota	141	196,620	45,984	164	533,119	74,160	65	632,384	65,007
Ohio	35	46,439	9,727	15	39,888	10,436	3	(D)	1,180
Oklahoma	295	418,262	87,797	276	830,773	139,720	97	1,088,782	128,633
Oregon	453	684,536	250,062	451	1,386,340	278,395	420	6,087,038	468,685
Pennsylvania	25	35,066	1,637	11	33,697	(D)	7	68,550	(D)
Rhode Island	-	-	-	1	(D)	(D)	-	-	-
South Carolina	76	107,503	28,186	81	229,034	59,029	5	44,482	18,235
South Dakota	253	352,842	90,513	199	617,714	110,756	145	1,432,053	87,751
Tennessee	64	97,091	18,740	111	336,450	58,658	32	291,064	50,308
Texas	1,894	2,683,214	976,445	1,587	4,609,695	1,409,028	974	21,841,810	1,272,144
Utah	329	455,789	186,586	230	616,158	163,160	220	2,691,144	197,403
Vermont	-	-	-	-	-	-	-	-	-
Virginia	68	102,922	7,868	30	83,503	15,574	8	60,981	7,828
Washington	292	395,916	288,146	185	544,681	275,639	230	2,576,727	474,115
West Virginia	-	-	-	7	19,307	(D)	-	-	-
Wisconsin	253	349,130	96,560	128	373,361	145,422	40	295,795	117,282
Wyoming	461	661,670	237,865	469	1,465,150	283,252	620	15,063,247	518,569
Water Resources Regions									
Region 01 New England	23	29,971	4,337	13	35,263	5,498	3	89,543	12,664
Region 02 Mid-Atlantic	227	321,504	99,814	115	324,677	82,125	25	196,601	16,755
Region 03 South Atlantic-Gulf	1,160	1,591,625	547,302	741	2,061,775	745,741	258	3,024,754	1,024,073
Region 04 Great Lakes	433	595,590	205,797	215	607,453	227,641	41	300,280	136,878
Region 05 Ohio	190	250,566	52,846	215	607,952	135,863	60	513,885	80,180
Region 06 Tennessee	30	44,882	8,751	46	135,180	20,939	17	117,878	(D)
Region 07 Upper Mississippi	915	1,276,717	387,537	542	1,554,164	510,864	92	840,261	237,083
Region 08 Lower Mississippi	1,712	2,434,123	1,713,439	1,787	5,222,791	3,707,874	356	2,649,824	1,720,714
Region 09 Souris-Red-Rainy	68	93,520	27,218	137	431,599	61,830	39	368,731	69,524
Region 10 Missouri	5,556	7,686,622	3,382,522	4,555	14,060,845	3,908,044	2,936	41,263,753	2,858,100
Region 11 Arkansas-White-Red	1,852	2,628,910	971,810	1,974	6,004,415	1,764,202	1,180	11,084,241	1,822,085
Region 12 Texas-Gulf	1,523	2,199,372	782,995	1,184	3,331,571	1,006,372	391	9,325,250	594,946
Region 13 Rio Grande	256	367,325	138,607	182	578,105	187,207	493	14,892,885	195,834
Region 14 Upper Colorado	484	670,337	182,885	273	812,053	231,494	308	4,603,409	319,731
Region 15 Lower Colorado	252	363,392	154,409	147	462,071	300,948	236	4,512,772	232,686
Region 16 Great Basin	360	496,497	220,768	393	1,166,001	342,721	241	4,696,618	406,427
Region 17 Pacific Northwest	1,739	2,425,988	1,171,196	1,098	3,304,946	1,348,743	924	12,062,797	1,877,877
Region 18 California	1,405	1,908,843	1,404,856	1,408	4,434,066	1,468,076	376	5,804,903	1,917,217
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	13	16,867	7,034	15	44,178	15,128	8	143,088	(D)

Table 19. **Irrigated Farms by North American Industrial Classification System: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Total		Oilseed and grain farming (1111)		Other crop farming (1119)							
						Total		Tobacco farming (11191)		Cotton farming (11192)		Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199)	
		Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States	2013	229,237	55,319,417	42,515	26,485,980	37,501	11,233,609	262	17,061	3,829	2,903,874	33,410	8,312,674
	2008	235,715	55,540,978	36,551	23,133,835	41,907	12,479,891	566	18,984	4,087	3,936,336	37,254	8,524,571
2013 DATA													
Alabama		1,022	101,178	87	40,591	124	25,861	-	-	22	6,353	102	19,508
Alaska		181	1,071	-	-	5	418	-	-	-	-	5	418
Arizona		4,380	851,861	333	77,695	922	528,222	-	-	197	146,971	725	381,251
Arkansas		4,212	4,950,053	3,226	4,523,285	395	378,047	-	-	167	369,191	228	8,856
California		44,347	7,549,161	2,511	1,295,733	1,496	1,271,562	-	-	159	281,711	1,337	989,851
Colorado		12,501	2,309,543	1,396	828,664	3,915	577,872	-	-	-	-	3,915	577,872
Connecticut		715	5,371	-	-	34	596	2	(D)	-	-	32	(D)
Delaware		396	114,769	175	74,591	20	5,162	-	-	-	-	20	5,162
Florida		8,120	1,364,559	93	11,207	203	475,366	7	1,260	10	11,440	186	462,666
Georgia		3,545	1,196,947	194	98,737	1,244	753,537	10	4,000	451	210,813	783	538,724
Hawaii		1,919	76,459	10	9,598	132	(D)	-	-	-	-	132	(D)
Idaho		14,092	3,511,839	2,324	670,891	3,753	1,362,821	-	-	-	-	3,753	1,362,821
Illinois		1,807	541,818	1,038	496,474	50	949	-	-	-	-	50	949
Indiana		1,893	454,712	955	410,216	46	4,128	-	-	-	-	46	4,128
Iowa		1,090	175,847	468	160,044	59	2,035	-	-	-	-	59	2,035
Kansas		5,243	2,851,317	4,189	2,458,264	316	175,180	-	-	1	(D)	315	(D)
Kentucky		1,212	51,126	109	42,171	217	2,667	84	2,118	-	-	133	549
Louisiana		2,130	1,096,381	1,272	1,033,654	99	31,469	-	-	20	11,726	79	19,743
Maine		946	20,817	-	-	86	210	-	-	-	-	86	210
Maryland		890	100,909	186	57,706	89	4,826	-	-	-	-	89	4,826
Massachusetts		1,398	27,230	-	-	69	1,051	11	98	-	-	58	953
Michigan		3,662	587,850	890	346,626	161	11,599	-	-	-	-	161	11,599
Minnesota		2,162	516,724	1,037	379,006	134	17,561	-	-	-	-	134	17,561
Mississippi		1,843	1,701,587	1,097	1,550,764	169	132,186	-	-	80	94,084	89	38,102
Missouri		2,569	1,235,334	1,231	1,014,147	302	180,972	-	-	125	172,002	177	8,970
Montana		7,384	1,872,389	962	362,741	2,072	422,770	-	-	-	-	2,072	422,770
Nebraska		15,747	8,297,560	12,072	7,215,870	903	102,129	-	-	-	-	903	102,129
Nevada		2,149	689,953	63	2,392	784	306,205	-	-	-	-	784	306,205
New Hampshire		528	4,020	-	-	53	148	-	-	-	-	53	148
New Jersey		1,255	80,777	55	9,612	39	4,153	-	-	-	-	39	4,153
New Mexico		8,733	694,632	251	143,927	2,616	227,757	-	-	16	17,023	2,600	210,734
New York		1,936	48,705	29	(D)	121	1,192	-	-	-	-	121	1,192
North Carolina		2,710	136,721	116	25,495	276	42,150	71	(D)	20	(D)	185	29,696
North Dakota		533	213,728	301	136,958	85	33,309	-	-	-	-	85	33,309
Ohio		1,453	41,776	134	9,889	119	907	-	-	-	-	119	907
Oklahoma		1,672	426,602	486	232,397	198	76,393	-	-	50	17,795	148	58,598
Oregon		12,299	1,554,173	177	100,548	2,113	532,350	-	-	-	-	2,113	532,350
Pennsylvania		3,126	24,027	130	1,426	437	2,286	31	31	-	-	406	2,255
Rhode Island		294	3,042	-	-	22	42	-	-	-	-	22	42
South Carolina		1,046	133,927	97	24,306	217	53,246	-	-	35	12,223	182	41,023
South Dakota		1,274	369,864	629	249,683	138	17,694	-	-	-	-	138	17,694
Tennessee		1,108	146,932	209	112,341	98	16,375	13	180	21	14,839	64	1,356
Texas		13,259	4,491,987	1,935	1,524,671	4,682	2,210,254	-	-	2,455	1,527,699	2,227	682,555
Utah		10,357	1,125,106	650	125,957	3,728	361,871	-	-	-	-	3,728	361,871
Vermont		567	2,324	-	-	45	126	-	-	-	-	45	126
Virginia		1,342	50,100	77	21,358	102	(D)	33	(D)	-	-	69	(D)
Washington		10,575	1,623,389	541	251,916	2,655	490,135	-	-	-	-	2,655	490,135
West Virginia		297	1,453	1	(D)	41	(D)	-	-	-	-	41	(D)
Wisconsin		2,427	473,483	441	161,625	153	7,261	-	-	-	-	153	7,261
Wyoming		4,891	1,418,284	338	190,395	1,764	336,766	-	-	-	-	1,764	336,766
Water Resources Regions													
Region 01 New England		4,098	60,990	-	-	288	2,146	13	(D)	-	-	275	(D)
Region 02 Mid-Atlantic		7,325	391,761	598	163,984	653	19,135	31	31	-	-	622	19,104
Region 03 South Atlantic-Gulf		16,745	2,946,118	591	199,267	2,145	1,356,932	121	14,159	533	244,003	1,491	1,098,770
Region 04 Great Lakes		6,462	821,148	1,247	469,505	334	14,059	-	-	-	-	334	14,059
Region 05 Ohio		4,554	356,743	835	292,015	420	(D)	88	(D)	-	-	332	(D)
Region 06 Tennessee		1,139	57,924	94	38,604	100	3,665	7	105	7	2,799	86	761
Region 07 Upper Mississippi		6,665	1,534,692	2,811	1,116,878	361	24,353	-	-	-	-	361	24,353
Region 08 Lower Mississippi		7,682	8,013,711	5,902	7,201,710	661	728,531	2	(D)	411	661,288	248	(D)
Region 09 Souris-Red-Rainy		466	175,244	280	132,331	32	7,251	-	-	-	-	32	7,251
Region 10 Missouri		33,574	13,599,516	17,455	9,749,145	5,167	942,549	-	-	-	-	5,167	942,549
Region 11 Arkansas-White-Red		10,446	5,228,308	4,552	3,890,987	2,029	678,038	-	-	369	197,801	1,660	480,237
Region 12 Texas-Gulf		10,567	3,030,034	1,083	551,004	3,888	1,928,064	-	-	2,086	1,356,790	1,802	571,274
Region 13 Rio Grande		9,195	802,641	76	29,024	2,755	347,250	-	-	67	12,511	2,688	334,739
Region 14 Upper Colorado		10,352	1,321,954	546	109,689	3,506	321,292	-	-	-	-	3,506	321,292
Region 15 Lower Colorado		5,092	916,132	165	80,635	1,064	560,812	-	-	197	146,971	867	413,841
Region 16 Great Basin		9,441	1,558,309	740	141,791	3,623	576,437	-	-	-	-	3,623	576,437
Region 17 Pacific Northwest		38,443	6,725,486	3,015	1,011,258	8,585	2,366,680	-	-	-	-	8,585	2,366,680
Region 18 California		44,891	7,701,176	2,515	1,298,555	1,753	1,313,264	-	-	159	281,711	1,594	1,031,553
Region 19 Alaska		181	1,071	-	-	5	418	-	-	-	-	5	418
Region 20 Hawaii		1,919	76,459	10	9,598	132	(D)	-	-	-	-	132	(D)

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Table 19. **Irrigated Farms by North American Industrial Classification System: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Vegetable and melon farming (1112)		Fruit and tree nut farming (1113)		Greenhouse, nursery, and floriculture farming (1114)	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	13,859	3,872,226	53,875	4,118,335	27,398	666,106
2008	12,936	4,391,456	56,806	4,154,273	24,612	565,453
2013 DATA						
Alabama	157	6,016	172	3,484	370	19,330
Alaska	60	485	2	(D)	104	156
Arizona	338	128,984	835	24,339	366	14,846
Arkansas	157	13,216	94	1,854	182	24,717
California	1,470	1,261,574	32,351	2,781,721	2,541	69,077
Colorado	255	144,931	731	4,202	387	16,710
Connecticut	197	1,417	31	310	425	2,953
Delaware	42	17,535	12	96	63	645
Florida	457	169,679	3,210	482,268	3,564	104,728
Georgia	340	116,746	855	128,998	547	17,424
Hawaii	254	7,548	600	11,535	841	(D)
Idaho	377	668,493	556	10,396	339	7,759
Illinois	241	25,590	28	50	429	11,339
Indiana	231	15,188	107	430	422	3,121
Iowa	105	596	53	424	246	1,818
Kansas	79	79	63	71	189	4,028
Kentucky	266	1,528	80	305	371	1,517
Louisiana	139	13,944	142	1,275	387	3,639
Maine	199	7,002	95	12,214	549	1,374
Maryland	203	8,516	43	2,539	286	9,517
Massachusetts	204	3,704	480	15,453	638	7,015
Michigan	592	110,318	788	41,128	1,076	26,756
Minnesota	236	37,580	93	421	417	6,056
Mississippi	107	1,288	178	3,738	185	5,215
Missouri	155	16,316	88	5,294	417	5,176
Montana	292	6,393	166	830	208	2,360
Nebraska	175	9,362	26	66	257	3,485
Nevada	82	21,715	63	2,059	46	692
New Hampshire	122	1,281	67	1,971	257	583
New Jersey	419	29,127	146	17,388	561	19,383
New Mexico	547	33,402	2,107	47,919	215	2,419
New York	408	24,398	281	9,370	976	9,367
North Carolina	460	15,673	194	5,652	1,093	10,605
North Dakota	43	31,894	7	(D)	37	(D)
Ohio	338	18,884	80	456	687	8,595
Oklahoma	172	4,064	163	2,592	188	24,422
Oregon	579	168,964	2,354	73,463	1,341	67,900
Pennsylvania	632	7,165	172	3,050	1,340	4,408
Rhode Island	85	423	19	198	158	2,311
South Carolina	219	16,553	33	10,432	373	19,585
South Dakota	44	53	-	-	82	378
Tennessee	143	6,983	68	577	475	8,730
Texas	464	118,707	1,974	52,717	1,151	69,189
Utah	227	7,462	492	8,069	183	6,164
Vermont	179	1,392	60	325	266	455
Virginia	322	6,809	95	1,374	603	(D)
Washington	590	351,107	3,082	315,065	739	18,893
West Virginia	70	449	14	32	147	458
Wisconsin	386	211,693	525	32,162	621	8,572
Wyoming	-	-	-	-	53	1,608
Water Resources Regions						
Region 01 New England	835	14,039	744	30,216	2,137	14,362
Region 02 Mid-Atlantic	1,762	82,832	552	30,365	2,978	46,489
Region 03 South Atlantic-Gulf	1,600	323,856	4,618	631,683	5,987	172,691
Region 04 Great Lakes	1,152	177,194	1,154	45,710	2,175	34,506
Region 05 Ohio	866	31,885	257	1,456	1,834	(D)
Region 06 Tennessee	264	4,652	58	3,313	487	5,996
Region 07 Upper Mississippi	774	215,856	602	32,041	1,452	25,921
Region 08 Lower Mississippi	283	47,052	188	7,608	512	9,704
Region 09 Souris-Red-Rainy	56	21,718	7	(D)	59	756
Region 10 Missouri	620	66,674	130	239	1,052	20,124
Region 11 Arkansas-White-Red .	360	47,311	252	3,366	683	53,771
Region 12 Texas-Gulf	456	71,300	1,680	39,543	1,091	68,707
Region 13 Rio Grande	569	137,473	2,358	60,233	163	2,352
Region 14 Upper Colorado	81	11,412	774	5,062	181	6,341
Region 15 Lower Colorado	358	131,109	1,049	26,831	361	14,857
Region 16 Great Basin	331	80,433	341	7,636	238	7,118
Region 17 Pacific Northwest	1,697	1,120,441	6,158	399,754	2,523	95,585
Region 18 California	1,481	1,278,956	32,351	2,781,721	2,540	69,070
Region 19 Alaska	60	485	2	(D)	104	156
Region 20 Hawaii	254	7,548	600	11,535	841	(D)

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Table 19. **Irrigated Farms by North American Industrial Classification System: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Beef cattle ranching and farming (112111)		Cattle feedlots (112112)		Dairy cattle and milk production (11212)		All other animal specialties (1122, 1123, 1124, 1125, 1129)	
		Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States	2013	34,292	5,966,127	1,252	698,465	3,462	1,462,914	15,083	815,655
	2008	36,741	7,127,432	3,446	934,205	4,715	1,705,171	18,001	1,049,264
2013 DATA									
Alabama		34	1,295	-	-	3	1,335	75	3,266
Alaska		-	-	-	-	-	-	10	(D)
Arizona		1,014	44,166	-	-	29	28,244	543	5,365
Arkansas		99	3,664	-	-	-	-	59	5,270
California		1,724	399,890	5	3,000	956	438,853	1,293	27,751
Colorado		4,714	618,283	211	47,520	43	43,253	849	28,108
Connecticut		-	-	-	-	13	73	15	22
Delaware		-	-	-	-	10	1,866	74	14,874
Florida		193	92,771	-	-	66	23,951	334	4,589
Georgia		91	22,785	-	-	51	21,050	223	37,670
Hawaii		33	4,683	-	-	1	(D)	48	223
Idaho		4,189	442,501	32	39,438	503	262,941	2,019	46,599
Illinois		-	-	3	2,110	5	500	13	4,806
Indiana		10	(D)	1	(D)	48	10,987	73	10,082
Iowa		13	1,930	33	3,500	21	36	92	5,464
Kansas		196	105,380	106	72,615	35	7,700	70	28,000
Kentucky		93	1,202	-	-	13	90	63	1,646
Louisiana		58	6,142	-	-	3	2,700	30	3,558
Maine		-	-	-	-	-	-	17	17
Maryland		3	15	-	-	21	5,987	59	11,803
Massachusetts		-	-	-	-	-	-	7	7
Michigan		26	962	8	1,968	87	27,459	34	21,034
Minnesota		38	7,484	29	8,845	137	44,038	41	15,733
Mississippi		18	1,146	-	-	-	-	89	7,250
Missouri		122	3,597	11	3,650	55	103	188	6,079
Montana		2,793	945,523	26	7,510	26	14,976	839	109,286
Nebraska		1,723	480,765	341	355,849	14	25,200	236	104,834
Nevada		845	325,781	3	1,590	25	20,330	238	9,189
New Hampshire		-	-	-	-	-	-	29	37
New Jersey		15	330	-	-	2	(D)	18	(D)
New Mexico		1,812	160,592	43	1,548	99	63,333	1,043	13,735
New York		9	18	-	-	83	1,708	29	(D)
North Carolina		34	(D)	-	-	2	(D)	535	35,418
North Dakota		44	6,333	3	(D)	5	600	8	(D)
Ohio		25	(D)	1	(D)	16	1,268	53	1,074
Oklahoma		336	62,869	12	2,760	15	19,160	102	1,945
Oregon		3,697	485,791	19	14,980	198	45,526	1,821	64,651
Pennsylvania		125	959	45	265	142	3,127	103	1,341
Rhode Island		4	(D)	4	32	-	-	2	(D)
South Carolina		6	2,015	-	-	20	4,362	81	3,428
South Dakota		245	52,222	57	18,895	4	2,600	75	28,339
Tennessee		17	264	-	-	11	625	87	1,037
Texas		2,382	360,485	8	46,078	102	96,866	561	13,020
Utah		3,077	401,598	147	30,777	217	110,754	1,636	72,454
Vermont		6	(D)	-	-	-	-	11	(D)
Virginia		15	92	-	-	23	4,026	105	(D)
Washington		2,329	99,916	14	7,570	150	78,724	475	10,063
West Virginia		6	(D)	-	-	-	-	18	18
Wisconsin		74	3,811	4	3,680	192	39,629	31	5,050
Wyoming		2,005	816,479	86	23,186	16	7,724	629	42,126
Water Resources Regions									
Region 01 New England		4	16	4	32	13	73	73	106
Region 02 Mid-Atlantic		162	1,162	45	265	191	15,202	384	32,327
Region 03 South Atlantic-Gulf		357	120,293	-	-	142	50,998	1,305	90,398
Region 04 Great Lakes		55	2,144	9	2,097	237	47,773	99	28,160
Region 05 Ohio		133	1,471	-	-	64	(D)	145	5,652
Region 06 Tennessee		24	271	-	-	7	95	105	1,328
Region 07 Upper Mississippi		124	8,798	42	14,890	346	69,519	153	26,436
Region 08 Lower Mississippi		74	6,982	4	1,540	3	2,700	55	7,884
Region 09 Souris-Red-Rainy		20	5,165	-	-	9	3,540	3	(D)
Region 10 Missouri		6,837	1,995,508	553	432,429	138	97,222	1,622	295,626
Region 11 Arkansas-White-Red		1,908	393,314	224	93,386	24	49,906	414	18,229
Region 12 Texas-Gulf		1,666	220,410	1	(D)	135	105,159	567	(D)
Region 13 Rio Grande		2,288	183,054	64	(D)	57	24,294	865	(D)
Region 14 Upper Colorado		3,881	773,111	139	18,444	18	10,450	1,226	66,153
Region 15 Lower Colorado		1,339	65,638	-	-	29	28,244	727	8,006
Region 16 Great Basin		2,440	541,198	106	37,989	221	113,824	1,401	51,883
Region 17 Pacific Northwest		11,070	1,179,365	52	42,298	851	382,409	4,492	127,696
Region 18 California		1,877	463,544	9	9,640	976	454,703	1,389	31,723
Region 19 Alaska		-	-	-	-	-	-	10	(D)
Region 20 Hawaii		33	4,683	-	-	1	(D)	48	223

Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All farms									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	229,237	213,993,983	55,319,417	51,907,422	37,218,965	6,377,283	14,457,395	48,514,563	9,204,200	30,792,048
2008 [2]	206,834	198,160,896	54,929,915	50,970,320	36,181,006	8,813,848	13,069,453	48,491,704	13,773,706	28,969,626
2013 DATA										
Alabama	1,022	504,646	101,178	100,420	48,763	42,992	11,034	24,047	18,380	3,736
Alaska	181	7,717	1,071	1,063	863	84	82	397	36	67
Arizona	4,380	5,045,635	851,861	803,778	314,888	100,646	540,471	1,039,312	327,540	2,390,087
Arkansas	4,212	6,142,871	4,950,053	4,927,143	4,493,910	701,389	59,254	5,495,099	895,608	63,795
California	44,347	15,204,700	7,549,161	7,027,017	3,855,572	1,027,462	4,015,807	9,759,520	1,824,450	11,915,774
Colorado	12,501	11,929,608	2,309,543	1,990,202	1,003,767	318,132	1,109,693	1,564,529	576,475	1,995,458
Connecticut	715	42,815	5,371	5,336	2,029	2,838	480	2,280	2,371	441
Delaware	396	285,716	114,769	114,604	108,723	6,034	1,103	56,254	1,321	851
Florida	8,120	3,092,536	1,364,559	1,244,674	743,286	291,815	399,525	710,417	355,180	523,962
Georgia	3,545	3,157,131	1,196,947	1,169,989	963,619	244,948	16,846	475,652	127,297	6,755
Hawaii	1,919	237,937	76,459	(D)	28,634	10,840	60,645	(D)	17,331	152,014
Idaho	14,092	7,171,848	3,511,839	3,233,123	1,431,890	451,233	1,712,201	2,521,163	850,678	3,052,345
Illinois	1,807	1,711,314	541,818	540,994	526,528	11,657	6,955	354,957	5,789	6,963
Indiana	1,893	1,589,508	454,712	453,635	409,965	43,764	6,891	207,967	23,381	3,738
Iowa	1,090	689,083	175,847	175,327	167,365	6,435	3,123	89,278	2,079	1,652
Kansas	5,243	13,099,354	2,851,317	2,842,037	2,805,798	31,276	35,496	3,388,262	19,077	25,314
Kentucky	1,212	421,519	51,126	50,434	26,543	23,191	1,451	(D)	10,702	873
Louisiana	2,130	2,215,984	1,096,381	1,088,530	883,244	183,232	41,766	1,088,420	308,302	58,290
Maine	946	170,958	20,817	(D)	11,296	9,758	1,314	3,605	3,442	226
Maryland	890	330,962	100,909	100,757	78,738	20,236	3,331	37,219	9,407	1,292
Massachusetts	1,398	113,354	27,230	27,068	7,919	21,928	2,313	4,831	30,425	1,223
Michigan	3,662	1,567,036	587,850	587,163	466,999	126,672	13,006	237,188	68,984	6,479
Minnesota	2,162	1,686,988	516,724	512,373	467,078	32,625	20,117	283,380	23,485	16,947
Mississippi	1,843	2,768,094	1,701,587	1,692,819	1,609,517	92,074	7,808	1,676,317	87,154	5,575
Missouri	2,569	2,214,797	1,235,334	1,232,694	1,172,331	58,135	11,388	1,154,530	33,692	5,221
Montana	7,384	18,929,369	1,872,389	1,476,839	54,903	436,155	1,410,384	62,879	611,789	1,827,785
Nebraska	15,747	21,609,278	8,297,560	8,253,125	7,666,921	194,992	511,761	7,389,319	154,652	525,151
Nevada	2,149	4,514,652	689,953	487,678	359,186	187,394	226,633	1,053,403	409,824	450,542
New Hampshire	528	24,712	4,020	(D)	1,220	1,172	1,169	502	478	452
New Jersey	1,255	208,657	80,777	80,034	59,986	27,262	1,672	32,352	15,286	1,392
New Mexico	8,733	8,534,856	694,632	598,842	405,303	134,877	204,312	805,323	142,908	363,172
New York	1,936	317,725	48,705	48,267	25,442	18,803	4,902	10,340	10,287	1,517
North Carolina	2,710	853,125	136,721	127,133	38,365	86,596	12,037	13,726	36,676	4,237
North Dakota	533	1,404,283	213,728	211,218	155,006	13,161	45,572	106,477	6,668	35,211
Ohio	1,453	228,773	41,776	41,307	24,245	14,833	3,812	12,911	11,001	1,907
Oklahoma	1,672	2,594,056	426,602	382,738	374,625	34,545	22,787	480,404	26,205	15,845
Oregon	12,299	9,151,996	1,554,173	1,269,594	509,517	347,580	773,068	807,027	634,746	1,530,758
Pennsylvania	3,126	350,717	24,027	23,507	11,499	10,571	1,880	5,142	3,902	1,189
Rhode Island	294	10,557	3,042	2,953	462	2,343	206	189	1,769	272
South Carolina	1,046	486,463	133,927	130,743	101,663	33,321	2,126	57,124	18,553	1,704
South Dakota	1,274	2,634,711	369,864	366,662	240,877	33,737	101,260	143,551	22,949	125,353
Tennessee	1,108	823,553	146,932	(D)	126,448	17,168	3,572	50,058	6,367	1,947
Texas	13,259	31,127,299	4,491,987	4,259,094	4,062,999	118,172	354,160	5,046,182	207,395	549,319
Utah	10,357	4,734,792	1,125,106	873,194	279,926	168,100	759,702	627,206	266,881	1,485,214
Vermont	567	29,362	2,324	2,149	402	1,564	267	273	483	252
Virginia	1,342	358,107	50,100	(D)	7,565	38,761	3,991	5,000	19,187	2,580
Washington	10,575	4,347,898	1,623,389	1,544,599	516,614	234,272	932,994	1,084,466	493,371	2,084,987
West Virginia	297	45,652	1,453	1,453	821	337	203	317	272	198
Wisconsin	2,427	1,372,536	473,483	472,830	428,678	41,931	9,684	300,523	68,045	19,424
Wyoming	4,891	17,898,743	1,418,284	1,069,883	137,026	320,243	987,142	155,264	411,921	1,522,562
Water Resources Regions										
Region 01 New England	4,098	370,371	60,990	(D)	23,032	38,332	5,535	11,566	38,576	2,643
Region 02 Mid-Atlantic	7,325	1,532,811	391,761	389,537	283,809	107,094	11,501	142,125	50,463	6,728
Region 03 South Atlantic-Gulf	16,745	8,330,845	2,946,118	2,784,444	1,890,748	723,395	435,750	1,282,627	569,665	538,676
Region 04 Great Lakes	6,462	2,326,517	821,148	819,651	663,882	159,570	20,864	351,227	89,657	10,278
Region 05 Ohio	4,554	1,865,938	356,743	354,644	306,194	44,422	7,773	158,086	23,347	3,630
Region 06 Tennessee	1,139	390,596	57,924	(D)	17,620	28,353	11,811	(D)	13,532	4,686
Region 07 Upper Mississippi	6,665	4,846,746	1,534,692	1,529,988	1,402,624	111,670	33,789	915,587	111,215	36,084
Region 08 Lower Mississippi	7,682	11,604,745	8,013,711	7,993,138	7,389,805	851,276	77,403	8,396,012	1,147,044	86,321
Region 09 Souris-Red-Rainy	466	946,911	175,244	172,480	142,636	18,045	16,157	92,636	13,245	12,899
Region 10 Missouri	33,574	69,817,497	13,599,516	12,982,321	9,792,346	989,897	3,005,557	9,616,718	1,248,396	4,026,668
Region 11 Arkansas-White-Red	10,446	21,425,664	5,228,308	5,032,346	4,809,192	236,878	248,564	6,318,195	311,141	324,370
Region 12 Texas-Gulf	10,567	16,472,029	3,030,034	2,884,146	2,633,194	113,850	323,718	3,059,888	147,930	511,323
Region 13 Rio Grande	9,195	16,316,788	802,641	655,616	530,276	102,876	254,928	1,112,395	116,177	359,272
Region 14 Upper Colorado	10,352	7,226,077	1,321,954	891,336	51,681	281,462	1,011,206	103,616	463,829	2,071,528
Region 15 Lower Colorado	5,092	5,775,810	916,132	847,806	332,288	125,922	563,253	1,086,102	419,328	2,449,689
Region 16 Great Basin	9,441	7,383,147	1,558,309	1,260,054	607,277	304,126	794,682	1,582,827	593,001	1,453,982
Region 17 Pacific Northwest	38,443	21,543,550	6,725,486	6,040,772	2,389,330	1,087,619	3,479,358	4,297,804	2,046,026	6,660,874
Region 18 California	44,891	15,572,287	7,701,176	7,108,302	3,923,536	1,041,572	4,094,815	9,897,628	1,784,261	12,080,316
Region 19 Alaska	181	7,717	1,071	1,063	863	84	82	397	36	67
Region 20 Hawaii	1,919	237,937	76,459	(D)	28,634	10,840	60,645	(D)	17,331	152,014

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Less than $25,000									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	102,923	26,670,428	2,314,442	1,612,554	733,090	348,922	1,302,287	1,064,909	498,463	2,242,315
2008 [2]	100,371	19,858,301	2,911,875	1,993,322	647,455	862,792	1,466,477	913,653	1,339,114	2,438,975
2013 DATA										
Alabama	452	31,895	2,566	2,049	1,093	1,103	381	624	605	299
Alaska	122	4,264	176	168	82	23	47	52	(D)	(D)
Arizona	2,992	2,970,467	48,288	31,883	25,437	1,763	24,514	70,159	1,923	80,692
Arkansas	738	104,535	27,358	26,963	24,237	4,355	385	28,319	1,706	459
California	21,322	3,362,187	225,097	172,177	111,159	19,146	115,844	247,150	24,714	238,972
Colorado	7,295	1,805,893	283,357	193,302	28,789	48,700	218,272	50,185	111,856	460,373
Connecticut	291	4,115	509	481	195	231	23	183	136	30
Delaware	82	2,102	453	453	(D)	(D)	-	178	(D)	-
Florida	3,626	75,518	23,708	20,377	16,145	6,169	1,574	11,877	8,063	670
Georgia	1,061	94,134	14,543	11,238	14,023	453	51	11,349	280	52
Hawaii	1,095	18,877	6,049	2,350	133	3,289	2,604	152	1,808	3,387
Idaho	7,861	578,112	212,325	138,620	44,544	22,623	146,527	81,386	44,635	185,268
Illinois	355	36,912	4,889	4,205	4,387	364	75	2,350	136	76
Indiana	440	34,754	4,379	4,373	3,992	181	125	2,318	186	67
Iowa	313	13,741	1,141	1,081	853	(D)	126	268	75	70
Kansas	361	211,662	23,076	23,076	22,193	186	1,250	21,668	61	628
Kentucky	577	66,643	2,136	2,030	177	1,501	338	139	557	244
Louisiana	543	49,492	14,081	9,082	10,698	1,318	2,046	13,364	522	1,244
Maine	499	26,684	858	858	212	338	58	174	305	55
Maryland	229	6,677	1,173	1,168	861	(D)	130	308	79	(D)
Massachusetts	531	18,685	1,514	1,507	741	636	104	1,664	592	96
Michigan	1,038	53,373	6,302	6,302	5,203	858	91	2,863	(D)	78
Minnesota	456	65,919	11,576	9,192	9,186	(D)	(D)	4,178	(D)	(D)
Mississippi	323	35,780	10,538	3,175	7,525	1,396	1,584	1,980	1,371	560
Missouri	688	77,395	12,376	10,866	10,294	1,884	128	6,657	2,434	168
Montana	3,895	3,265,151	212,825	143,431	6,940	52,272	153,908	8,012	41,216	177,085
Nebraska	741	24,434	16,238	11,425	4,853	324	11,365	3,340	9	20,522
Nevada	1,134	217,884	43,518	25,644	13,595	15,935	17,628	37,309	35,010	37,719
New Hampshire	260	8,795	351	349	188	76	17	124	95	27
New Jersey	441	17,034	2,980	2,476	2,165	376	557	827	491	549
New Mexico	6,938	2,868,409	108,190	77,080	34,726	28,214	51,999	65,845	38,781	73,530
New York	699	44,488	1,734	1,574	970	511	156	596	135	86
North Carolina	1,282	51,793	5,923	5,083	2,851	2,936	62	1,289	1,137	67
North Dakota	70	9,542	737	737	59	266	400	61	140	351
Ohio	582	21,064	1,249	1,220	547	421	183	395	252	181
Oklahoma	610	438,187	30,434	21,108	26,927	1,860	1,654	22,554	790	721
Oregon	7,310	1,234,103	186,953	102,769	57,385	20,377	111,646	68,155	37,726	253,642
Pennsylvania	976	26,148	1,684	1,444	1,022	287	(D)	696	222	46
Rhode Island	162	2,607	299	231	198	43	23	115	60	35
South Carolina	459	28,486	3,450	2,861	2,385	(D)	668	1,279	201	574
South Dakota	241	160,729	15,921	15,789	4,116	4,009	12,627	1,037	1,302	18,879
Tennessee	434	37,028	4,307	4,212	3,256	532	456	816	306	202
Texas	5,731	1,975,512	214,977	166,894	168,097	21,881	29,878	186,396	15,719	28,866
Utah	7,348	607,456	243,425	163,702	30,934	29,803	186,008	61,718	53,219	354,594
Vermont	238	9,367	288	288	106	84	3	91	62	4
Virginia	555	24,201	1,663	1,663	787	598	113	565	508	54
Washington	6,034	303,111	72,513	47,971	15,948	6,828	49,730	33,938	13,456	93,115
West Virginia	167	14,263	307	307	(D)	164	35	82	142	25
Wisconsin	639	71,715	5,604	5,524	5,061	465	260	3,527	812	85
Wyoming	2,687	5,459,105	200,404	131,796	7,450	41,761	155,974	6,600	53,322	207,311
Water Resources Regions										
Region 01 New England	1,868	65,570	3,662	3,557	1,606	1,348	226	2,400	1,211	244
Region 02 Mid-Atlantic	2,320	87,702	8,358	7,689	5,452	1,680	891	2,780	1,025	716
Region 03 South Atlantic-Gulf	6,894	296,037	52,123	42,240	36,751	11,267	4,233	26,497	10,624	2,164
Region 04 Great Lakes	1,924	98,350	11,181	11,181	9,099	1,260	492	5,235	(D)	259
Region 05 Ohio	1,833	138,944	7,833	7,452	(D)	2,148	692	2,808	(D)	524
Region 06 Tennessee	664	33,008	2,029	1,835	(D)	(D)	462	363	446	(D)
Region 07 Upper Mississippi	1,584	177,516	19,786	18,178	(D)	(D)	(D)	9,540	965	646
Region 08 Lower Mississippi	1,035	109,613	48,563	38,766	44,569	2,990	954	42,129	1,924	745
Region 09 Souris-Red-Rainy	99	14,465	2,024	424	(D)	(D)	(D)	61	(D)	145
Region 10 Missouri	7,555	8,893,287	441,572	327,919	53,340	94,235	304,335	49,899	119,524	347,107
Region 11 Arkansas-White-Red	3,132	2,107,160	150,579	108,830	85,406	20,296	46,929	86,207	19,618	89,139
Region 12 Texas-Gulf	4,833	1,529,640	164,139	133,903	123,068	25,241	20,690	144,576	18,299	17,386
Region 13 Rio Grande	7,142	2,352,478	95,399	62,487	40,547	20,097	40,792	71,393	30,080	68,770
Region 14 Upper Colorado	7,010	1,235,411	303,328	180,576	19,136	49,311	248,766	33,646	96,643	546,271
Region 15 Lower Colorado	3,428	3,298,100	61,739	37,693	26,707	7,755	30,978	72,345	12,475	99,252
Region 16 Great Basin	6,038	621,536	186,443	134,230	33,544	31,350	127,107	83,605	57,174	227,911
Region 17 Pacific Northwest	22,858	2,207,935	509,640	313,533	115,884	52,498	345,386	183,533	98,460	573,449
Region 18 California	21,489	3,380,535	239,819	179,543	114,195	20,886	125,798	247,689	25,584	263,973
Region 19 Alaska	122	4,264	176	168	82	23	47	52	(D)	(D)
Region 20 Hawaii	1,095	18,877	6,049	2,350	133	3,289	2,604	152	1,808	3,387

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$25,000 to $49,999									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	18,542	4,807,835	1,041,037	858,542	397,593	176,630	482,869	450,964	247,856	862,761
2008 [2]	16,554	5,552,985	1,214,046	1,003,589	439,877	292,985	520,440	551,445	435,889	889,458
2013 DATA										
Alabama	71	19,995	839	777	269	496	(D)	119	197	26
Alaska	21	(D)	(D)	(D)	(D)	-	-	18	-	-
Arizona	286	490,314	13,699	8,739	(D)	(D)	11,021	2,467	(D)	61,668
Arkansas	144	29,132	8,294	7,814	7,724	1,314	6	6,096	168	6
California	3,335	63,429	51,392	51,336	42,967	223	8,184	60,170	878	10,802
Colorado	1,614	335,765	154,230	120,587	21,085	18,995	114,159	8,502	11,405	191,403
Connecticut	67	1,703	(D)	186	172	3	7	177	3	7
Delaware	31	2,717	727	727	(D)	-	(Z)	199	-	(D)
Florida	541	47,392	9,949	9,344	9,364	573	33	6,838	841	53
Georgia	157	44,566	9,776	8,276	4,332	3,052	2,401	2,072	3,022	1,015
Hawaii	223	22,500	1,413	953	(D)	737	(D)	14	997	798
Idaho	1,456	513,174	133,228	112,394	31,545	28,259	78,221	59,617	50,809	130,669
Illinois	94	5,256	1,763	1,763	1,635	105	2	606	15	(D)
Indiana	143	9,390	2,236	2,204	1,906	11	288	694	11	77
Iowa	74	7,127	1,261	1,261	1,152	(D)	41	699	47	19
Kansas	89	84,376	14,574	14,574	14,532	-	22	21,421	-	15
Kentucky	168	12,293	1,024	930	303	575	123	99	373	119
Louisiana	134	54,930	14,403	13,867	7,211	6,828	364	7,691	19,404	63
Maine	118	5,448	168	168	93	69	3	99	43	2
Maryland	88	4,838	1,182	1,172	571	(D)	15	281	330	5
Massachusetts	145	5,569	1,442	1,442	129	1,255	59	119	929	38
Michigan	287	14,810	4,116	4,116	2,263	815	1,041	696	(D)	443
Minnesota	200	42,244	16,441	16,441	7,022	8,645	770	3,636	(D)	583
Mississippi	124	59,711	2,314	2,314	1,712	600	2	1,830	96	4
Missouri	227	18,275	4,968	4,968	3,720	1,153	38	5,436	275	13
Montana	463	339,358	69,624	44,507	5,271	19,730	44,620	9,271	56,275	55,787
Nebraska	972	539,167	94,250	94,250	83,958	24	10,245	66,380	8	11,596
Nevada	209	95,150	26,757	12,355	8,934	12,052	7,039	22,513	23,002	18,820
New Hampshire	49	2,575	96	96	(D)	24	2	42	19	5
New Jersey	68	1,805	791	791	647	60	83	624	99	42
New Mexico	579	530,703	56,116	33,214	21,176	24,045	11,788	38,469	13,597	20,402
New York	253	10,625	1,650	1,638	1,097	(D)	445	238	65	71
North Carolina	270	10,765	3,211	1,711	435	880	1,893	477	475	830
North Dakota	16	27,730	2,460	2,460	1,860	300	300	1,776	105	140
Ohio	146	7,698	479	479	279	137	40	150	87	39
Oklahoma	82	89,621	9,715	8,055	7,916	1,800	-	6,527	(D)	-
Oregon	1,392	243,558	69,266	60,856	15,619	4,612	49,036	26,114	7,944	126,153
Pennsylvania	425	(D)	1,799	1,769	1,182	343	200	(D)	198	127
Rhode Island	35	2,028	(D)	190	(D)	166	12	3	149	23
South Carolina	92	8,285	1,580	1,580	1,440	595	(D)	644	183	70
South Dakota	93	63,458	12,843	12,843	2,105	-	10,738	1,059	-	17,934
Tennessee	111	22,435	840	(D)	240	534	55	83	74	50
Texas	782	477,773	67,339	56,239	55,888	11,173	5,950	47,910	18,599	10,677
Utah	676	127,387	68,044	52,392	12,994	12,429	43,535	22,773	15,941	84,115
Vermont	74	1,134	234	234	57	116	48	50	77	38
Virginia	201	18,492	931	931	699	179	(D)	712	88	20
Washington	1,073	51,904	39,626	32,278	8,177	1,918	31,265	13,258	1,827	47,112
West Virginia	39	1,153	(D)	(D)	30	-	13	(D)	-	18
Wisconsin	291	35,445	5,799	5,799	4,574	760	403	1,860	505	967
Wyoming	314	180,101	57,684	46,594	-	10,130	47,554	-	8,700	69,895
Water Resources Regions										
Region 01 New England	441	17,444	2,127	2,127	459	1,518	94	447	1,143	77
Region 02 Mid-Atlantic	831	40,268	6,404	6,352	4,775	1,147	415	2,416	728	191
Region 03 South Atlantic-Gulf	1,243	174,873	26,525	22,858	16,401	6,181	4,485	10,762	4,814	2,004
Region 04 Great Lakes	592	35,508	6,936	6,936	4,104	970	1,819	1,781	(D)	1,500
Region 05 Ohio	492	38,309	2,710	2,584	(D)	759	495	828	474	270
Region 06 Tennessee	131	(D)	(D)	(D)	(D)	(D)	(D)	112	(D)	34
Region 07 Upper Mississippi	575	63,016	14,442	14,442	(D)	(D)	(D)	4,814	762	606
Region 08 Lower Mississippi	291	64,558	23,991	22,975	16,798	6,828	365	17,710	19,404	66
Region 09 Souris-Red-Rainy	36	23,584	11,269	11,269	(D)	(D)	-	2,755	(D)	-
Region 10 Missouri	2,331	1,181,546	232,070	207,903	101,216	11,707	119,083	82,705	45,437	171,309
Region 11 Arkansas-White-Red	537	340,983	57,493	54,890	44,942	8,484	4,802	45,750	4,215	7,897
Region 12 Texas-Gulf	788	457,758	67,655	55,663	56,228	11,148	5,950	46,410	18,589	10,677
Region 13 Rio Grande	482	500,093	68,810	34,176	10,844	25,333	32,614	23,857	13,733	58,566
Region 14 Upper Colorado	1,153	265,319	120,533	87,352	(D)	25,383	90,066	13,273	24,155	151,817
Region 15 Lower Colorado	425	476,497	17,453	11,461	(D)	(D)	13,651	4,867	(D)	64,156
Region 16 Great Basin	891	261,533	78,552	59,200	19,733	14,676	43,772	36,463	21,966	83,382
Region 17 Pacific Northwest	3,520	726,537	240,020	196,023	50,498	48,879	148,172	92,150	76,775	283,727
Region 18 California	3,539	75,024	61,697	60,441	44,632	1,423	15,624	63,830	4,778	25,682
Region 19 Alaska	21	(D)	(D)	(D)	(D)	-	-	18	-	-
Region 20 Hawaii	223	22,500	1,413	953	(D)	737	(D)	14	997	798

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$50,000 to $99,999									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	19,564	11,605,795	1,866,346	1,527,446	829,274	268,792	825,148	1,045,698	354,278	1,471,693
2008 [2]	13,774	13,738,171	2,174,311	1,791,294	950,202	610,779	654,500	1,152,382	1,037,945	1,193,945
2013 DATA										
Alabama	96	15,892	2,599	2,471	1,491	627	493	511	542	(D)
Alaska	18	790	(D)	(D)	(D)	61	5	(D)	(D)	5
Arizona	210	118,524	19,668	15,832	(D)	1,459	13,885	16,969	5,011	55,769
Arkansas	239	113,535	80,843	80,843	67,336	16,375	913	74,183	17,298	600
California	4,220	398,183	138,185	111,724	75,591	11,525	64,919	143,309	6,164	186,343
Colorado	1,040	2,627,648	213,088	180,204	39,720	44,221	137,341	64,360	95,543	272,458
Connecticut	56	531	(D)	73	53	(D)	4	62	5	(Z)
Delaware	31	10,450	2,150	1,985	1,530	(D)	(D)	1,278	(D)	210
Florida	1,056	133,917	73,541	24,049	23,457	49,439	624	21,117	49,356	750
Georgia	273	89,393	19,285	17,705	14,600	2,765	2,384	7,341	1,128	701
Hawaii	203	2,236	(D)	(D)	(D)	34	850	39	40	1,038
Idaho	1,069	515,174	173,745	136,023	26,822	22,273	125,212	63,437	41,325	199,300
Illinois	179	49,543	13,972	13,972	13,331	600	(D)	6,339	367	85
Indiana	137	25,126	7,630	7,615	6,807	791	17	3,195	257	14
Iowa	113	24,618	4,386	4,386	4,137	13	216	2,475	8	115
Kansas	452	367,273	42,584	42,584	40,290	2,280	14	54,204	532	14
Kentucky	141	14,002	1,559	1,489	46	1,413	67	24	474	26
Louisiana	160	44,707	20,675	20,355	18,101	2,556	17	25,647	3,525	13
Maine	77	10,366	210	(D)	117	(D)	(Z)	67	(D)	(Z)
Maryland	106	8,860	1,864	1,864	1,002	809	52	346	473	(D)
Massachusetts	216	7,376	1,890	1,890	200	1,755	140	202	1,941	131
Michigan	253	39,164	8,646	8,646	1,859	4,741	2,112	1,097	1,235	484
Minnesota	229	73,764	16,360	16,360	13,405	(D)	(D)	8,471	1,244	(D)
Mississippi	71	34,715	23,401	23,401	18,967	2,816	1,800	24,200	3,183	1,744
Missouri	239	68,926	23,702	23,102	22,405	1,263	23	13,362	216	22
Montana	695	872,209	152,549	100,535	1,091	34,848	120,640	6,672	20,511	140,139
Nebraska	1,515	1,225,304	149,196	149,072	141,207	-	9,887	137,008	-	4,184
Nevada	246	131,629	38,653	29,216	11,272	5,330	22,771	25,904	17,754	61,518
New Hampshire	55	1,161	145	(D)	98	(D)	-	46	110	-
New Jersey	147	12,606	2,853	2,841	1,730	1,079	(D)	950	802	(D)
New Mexico	249	635,752	29,542	18,218	15,870	2,431	12,674	33,234	3,471	17,346
New York	236	44,841	1,560	1,560	832	492	246	323	146	105
North Carolina	190	40,464	3,149	3,149	197	2,860	116	208	1,484	32
North Dakota	29	48,036	1,980	1,788	722	182	1,072	302	98	1,236
Ohio	200	17,839	1,075	1,075	419	499	134	236	259	27
Oklahoma	262	305,774	35,708	31,823	33,450	3,095	45	38,858	1,608	14
Oregon	844	672,147	96,891	68,479	29,089	13,846	54,453	42,164	19,949	94,983
Pennsylvania	586	108,053	2,483	2,483	1,638	779	(D)	774	374	19
Rhode Island	3	6	(D)	6	-	(D)	-	-	12	-
South Carolina	98	17,111	3,088	3,088	2,280	520	280	810	176	(D)
South Dakota	93	102,630	11,459	11,309	2,624	-	8,837	1,062	-	7,274
Tennessee	105	18,978	1,594	1,572	1,348	185	49	321	61	40
Texas	726	525,633	140,451	129,355	118,056	435	33,256	107,450	135	51,453
Utah	762	505,042	97,538	69,524	17,887	5,728	73,926	41,564	15,440	148,746
Vermont	64	2,483	201	201	75	(D)	84	43	(D)	59
Virginia	95	3,852	579	(D)	(D)	342	(D)	130	224	(D)
Washington	528	395,886	61,510	55,571	24,321	3,475	33,759	50,196	9,118	64,906
West Virginia	47	20,517	237	237	(D)	126	2	(D)	108	3
Wisconsin	332	65,902	10,556	10,556	8,670	653	1,555	4,013	1,159	4,218
Wyoming	573	1,037,227	132,295	97,377	15,072	21,082	99,365	21,160	31,207	154,880
Water Resources Regions										
Region 01 New England	423	19,608	2,356	(D)	479	1,871	169	387	2,086	140
Region 02 Mid-Atlantic	983	166,346	10,696	10,519	6,726	3,320	587	3,607	1,949	331
Region 03 South Atlantic-Gulf	1,717	301,204	104,522	53,322	43,556	57,552	3,885	31,536	53,898	1,620
Region 04 Great Lakes	589	63,536	12,276	12,276	4,574	5,289	2,495	2,662	1,739	640
Region 05 Ohio	559	83,377	9,998	9,913	6,932	2,822	(D)	4,551	1,105	96
Region 06 Tennessee	61	6,023	(D)	265	(D)	150	(D)	(D)	(D)	22
Region 07 Upper Mississippi	754	220,733	41,811	41,811	36,215	3,789	2,145	17,534	2,514	4,853
Region 08 Lower Mississippi	519	210,456	130,557	130,215	112,284	19,547	2,681	121,806	22,251	2,333
Region 09 Souris-Red-Rainy	24	16,116	1,878	1,686	(D)	-	(D)	1,220	-	372
Region 10 Missouri	2,960	3,806,362	428,185	366,428	188,357	54,023	196,698	193,802	48,884	255,096
Region 11 Arkansas-White-Red	1,015	1,720,849	126,971	120,536	105,957	12,691	9,197	144,714	15,846	16,244
Region 12 Texas-Gulf	610	491,719	126,006	113,374	106,579	435	30,288	92,599	135	50,221
Region 13 Rio Grande	311	565,322	28,893	19,695	13,547	2,431	20,802	33,308	3,471	17,939
Region 14 Upper Colorado	989	1,249,129	213,381	153,136	7,046	35,268	171,065	13,664	82,932	357,258
Region 15 Lower Colorado	275	154,910	30,186	24,100	(D)	1,459	18,705	27,623	5,011	70,119
Region 16 Great Basin	747	423,324	118,623	100,058	27,907	10,070	81,926	64,132	29,302	157,727
Region 17 Pacific Northwest	2,540	1,641,430	327,246	251,163	68,686	45,256	213,842	139,131	75,476	343,538
Region 18 California	4,267	462,325	151,504	115,689	83,391	12,725	69,241	153,308	7,514	192,103
Region 19 Alaska	18	790	(D)	(D)	(D)	61	5	(D)	(D)	5
Region 20 Hawaii	203	2,236	(D)	(D)	(D)	34	850	39	40	1,038

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$100,000 to $249,999									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	26,354	23,094,855	4,396,129	3,872,916	2,502,082	508,202	1,558,856	3,060,658	677,777	2,757,086
2008 [2]	24,979	29,307,976	5,890,912	5,212,683	3,258,968	1,170,802	1,725,879	3,960,293	1,797,628	3,259,502
2013 DATA										
Alabama	129	40,302	4,234	4,183	1,637	2,508	152	1,126	948	20
Alaska	7	300	130	130	126	(Z)	(Z)	(D)	(Z)	(Z)
Arizona	256	242,619	45,779	41,081	21,314	1,650	26,663	84,364	6,600	113,642
Arkansas	551	343,151	218,251	205,429	182,646	56,640	218	191,596	46,752	217
California	4,201	539,190	262,556	229,143	155,576	16,792	147,764	373,776	37,047	448,963
Colorado	1,072	1,198,296	328,637	264,347	87,223	81,759	195,277	105,289	139,964	337,476
Connecticut	122	5,209	589	589	397	(D)	39	205	16	46
Delaware	75	29,246	10,807	10,807	9,935	862	2	5,023	231	1
Florida	849	101,092	55,819	48,087	45,951	3,894	6,463	33,396	2,504	5,643
Georgia	376	187,418	59,070	54,107	33,337	22,836	3,864	12,450	15,450	403
Hawaii	186	7,925	1,547	1,538	88	100	1,401	160	102	2,128
Idaho	1,283	1,045,903	351,498	317,515	87,109	31,408	238,140	140,781	45,741	439,566
Illinois	255	77,918	24,936	24,836	23,237	1,677	8	14,393	560	7
Indiana	262	73,195	27,309	27,309	23,542	3,372	365	13,752	2,366	101
Iowa	188	51,597	14,161	13,971	12,708	1,057	410	7,416	486	335
Kansas	1,386	1,958,796	334,817	331,877	333,625	8,055	55	376,457	5,757	58
Kentucky	111	19,009	2,449	2,179	516	1,875	48	43	524	36
Louisiana	358	223,864	79,740	78,204	66,734	10,102	3,335	97,718	17,514	3,043
Maine	162	9,216	697	697	263	377	(D)	260	109	31
Maryland	133	33,432	11,630	11,591	8,739	2,226	696	4,230	885	331
Massachusetts	194	8,797	3,148	3,134	1,273	2,052	39	1,133	2,558	35
Michigan	753	131,359	46,345	46,185	33,805	12,275	249	12,821	8,319	399
Minnesota	395	147,481	57,039	56,924	53,435	821	2,677	28,438	381	2,089
Mississippi	228	108,076	43,679	42,679	41,670	2,008	9	40,097	816	10
Missouri	401	207,876	84,078	83,748	71,078	7,465	5,548	60,725	3,867	2,035
Montana	1,066	2,443,030	316,465	237,492	13,318	63,099	249,380	10,226	100,087	309,224
Nebraska	2,950	3,202,770	554,386	548,898	465,901	140	89,873	463,454	98	70,983
Nevada	150	270,128	67,867	47,434	22,309	11,270	36,618	64,371	20,656	69,716
New Hampshire	81	4,140	1,081	1,081	168	864	178	58	166	63
New Jersey	194	24,486	8,908	8,874	5,120	3,783	337	2,562	1,187	171
New Mexico	424	219,811	68,478	64,906	57,193	3,677	16,036	119,828	5,099	19,519
New York	265	29,875	3,219	3,111	1,221	1,930	146	614	591	100
North Carolina	250	35,127	8,068	7,820	2,208	5,817	41	863	2,290	25
North Dakota	83	99,948	16,025	15,405	8,058	1,810	6,154	4,211	602	8,658
Ohio	221	32,942	2,188	2,148	1,238	496	488	440	318	414
Oklahoma	299	432,464	54,804	47,396	50,914	1,424	3,021	63,231	378	2,539
Oregon	1,076	1,090,455	146,837	106,199	27,882	39,382	80,552	56,674	80,732	127,471
Pennsylvania	537	33,381	4,932	4,932	3,331	1,882	75	1,581	622	68
Rhode Island	45	1,165	413	413	246	(D)	(D)	68	104	87
South Carolina	72	11,105	3,639	3,639	2,453	1,080	113	1,563	408	42
South Dakota	273	250,849	42,433	41,477	25,794	2,619	14,017	14,562	1,579	16,132
Tennessee	83	24,290	2,295	2,225	1,390	888	13	534	383	6
Texas	1,676	4,187,835	454,770	408,179	410,716	2,385	41,988	424,250	2,405	65,965
Utah	806	1,311,357	226,995	167,369	42,803	28,547	159,180	120,073	49,058	294,366
Vermont	104	6,873	451	451	28	373	(D)	20	111	47
Virginia	143	33,237	5,351	5,351	963	3,807	590	658	1,749	327
Washington	684	632,392	90,119	71,183	33,652	12,478	54,250	83,874	14,776	142,590
West Virginia	33	6,581	260	260	55	46	152	(D)	21	152
Wisconsin	352	79,151	23,407	23,347	17,670	5,854	905	10,014	3,093	345
Wyoming	554	1,840,196	223,793	153,036	11,486	42,489	171,219	11,213	51,768	271,460
Water Resources Regions										
Region 01 New England	636	29,127	6,032	6,018	2,349	3,624	341	1,725	2,976	270
Region 02 Mid-Atlantic	1,127	159,823	43,386	43,277	28,857	13,404	1,829	14,454	4,901	1,034
Region 03 South Atlantic-Gulf	1,749	400,087	133,250	120,256	87,511	36,646	10,628	53,338	21,655	6,140
Region 04 Great Lakes	1,240	203,175	57,902	57,664	40,848	16,884	505	16,659	9,935	596
Region 05 Ohio	579	115,524	19,652	19,272	14,719	4,071	854	9,632	1,759	528
Region 06 Tennessee	78	18,326	1,524	1,524	639	859	27	(D)	432	8
Region 07 Upper Mississippi	1,035	347,745	119,792	119,323	101,984	12,291	6,141	57,925	7,634	2,200
Region 08 Lower Mississippi	1,075	664,685	361,330	357,972	325,158	54,325	3,535	348,365	60,948	3,243
Region 09 Souris-Red-Rainy	36	26,627	10,105	10,015	8,259	8	1,840	3,910	7	1,760
Region 10 Missouri	6,007	8,372,789	1,287,069	1,177,752	722,666	107,153	504,255	725,913	166,550	673,392
Region 11 Arkansas-White-Red	1,797	3,434,804	521,648	477,338	455,721	34,739	37,717	514,969	27,197	26,803
Region 12 Texas-Gulf	1,146	841,448	291,679	262,014	253,188	2,336	36,980	281,440	2,305	60,955
Region 13 Rio Grande	502	2,211,299	87,603	86,223	64,367	2,649	28,115	97,340	1,365	36,374
Region 14 Upper Colorado	675	1,184,470	280,216	162,602	4,760	73,748	202,718	15,680	111,979	377,917
Region 15 Lower Colorado	301	438,097	56,677	45,379	25,024	3,450	32,051	96,454	8,760	129,766
Region 16 Great Basin	792	1,016,947	218,901	173,169	78,198	22,465	124,847	188,409	37,541	227,239
Region 17 Pacific Northwest	3,152	3,029,846	612,416	515,823	126,089	93,417	409,787	248,325	159,173	740,427
Region 18 California	4,234	591,811	285,270	235,627	161,530	26,032	155,284	385,524	52,557	466,306
Region 19 Alaska	7	300	130	130	126	(Z)	(Z)	(D)	(Z)	(Z)
Region 20 Hawaii	186	7,925	1,547	1,538	88	100	1,401	160	102	2,128

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$250,000 to $499,999									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	21,142	26,933,688	6,644,023	6,223,374	4,364,158	678,466	1,833,622	4,902,201	901,074	4,100,720
2008 [2]	18,856	32,968,236	8,051,610	7,474,773	5,594,976	1,300,152	1,510,003	6,675,330	2,128,415	3,011,752
2013 DATA										
Alabama	61	29,099	9,573	9,573	5,404	5,367	-	2,484	1,773	-
Alaska	7	(D)	(D)	(D)	(D)	-	-	(D)	-	-
Arizona	211	99,531	57,072	55,226	30,914	5,890	27,012	106,912	27,051	120,726
Arkansas	556	470,959	361,565	359,030	333,690	40,649	4,809	375,066	42,886	4,330
California	3,252	1,317,361	635,840	604,440	216,657	53,308	478,079	454,614	74,964	1,678,809
Colorado	605	1,511,693	331,371	283,366	149,463	29,270	168,271	295,791	43,170	320,513
Connecticut	82	2,981	781	781	302	(D)	(D)	288	103	(D)
Delaware	53	33,927	13,258	13,258	13,258	-	-	5,666	-	-
Florida	617	357,642	49,936	44,721	39,915	6,252	5,315	36,731	5,957	4,757
Georgia	416	237,581	98,528	98,328	72,800	29,324	1,376	35,027	16,660	1,156
Hawaii	102	58,569	2,632	1,802	566	990	1,782	566	451	3,695
Idaho	1,140	1,018,223	431,651	404,805	157,124	37,606	239,628	253,023	80,865	487,448
Illinois	240	147,019	50,614	50,606	49,965	1,222	94	35,038	637	(D)
Indiana	279	145,070	46,983	46,564	40,398	6,215	790	23,067	3,163	301
Iowa	122	63,185	19,034	19,002	18,168	852	8	9,246	271	12
Kansas	987	2,751,911	358,418	356,558	343,650	3,515	14,314	369,556	2,591	14,654
Kentucky	87	47,696	3,063	2,963	1,921	545	581	973	291	248
Louisiana	220	218,998	101,555	101,095	78,575	22,924	1,400	111,039	43,897	232
Maine	34	2,465	1,105	1,105	97	1,067	-	76	301	-
Maryland	101	37,116	16,106	16,016	13,868	2,441	-	6,876	1,009	-
Massachusetts	129	11,763	2,237	2,209	444	1,484	591	339	1,869	274
Michigan	410	197,842	52,893	52,893	38,034	12,346	3,126	14,971	4,594	1,534
Minnesota	271	155,568	57,481	57,233	51,688	1,020	4,798	29,181	716	3,784
Mississippi	270	230,220	103,631	103,631	95,410	8,359	345	95,102	5,451	275
Missouri	274	249,679	125,266	125,206	116,860	8,278	1,904	93,600	3,916	1,159
Montana	605	3,367,670	357,758	294,319	3,243	67,523	288,192	3,696	90,779	391,038
Nebraska	3,929	3,674,339	1,432,414	1,431,784	1,310,164	46,018	80,505	1,056,789	48,296	84,871
Nevada	201	435,366	137,694	90,167	69,215	59,800	22,645	216,520	124,166	46,370
New Hampshire	57	3,977	546	546	523	(D)	12	147	(D)	5
New Jersey	121	12,575	6,935	6,935	6,059	625	381	4,111	226	370
New Mexico	142	706,491	51,857	45,164	42,755	3,076	11,641	92,279	1,774	20,907
New York	212	44,407	8,290	8,282	1,276	6,745	753	325	3,773	155
North Carolina	238	83,714	10,984	10,534	1,034	9,475	509	456	3,196	266
North Dakota	101	239,412	30,582	30,394	20,042	4,070	6,471	11,674	2,617	4,097
Ohio	88	23,734	3,668	3,268	1,334	1,983	358	1,339	1,110	24
Oklahoma	172	410,547	75,158	73,277	51,182	21,076	2,900	68,512	17,209	2,098
Oregon	506	1,926,620	155,298	121,141	32,467	39,569	92,364	43,655	74,761	188,498
Pennsylvania	357	46,747	3,269	3,169	1,700	1,485	193	821	633	66
Rhode Island	20	1,139	1,026	1,005	-	1,015	(D)	-	577	(D)
South Carolina	91	67,212	9,949	9,869	7,195	2,387	377	2,800	664	353
South Dakota	180	478,091	38,214	37,963	26,888	2,583	8,740	13,108	443	15,472
Tennessee	96	69,701	11,037	11,037	8,030	2,175	881	2,240	1,238	611
Texas	1,848	3,132,014	836,627	799,438	785,756	9,263	42,870	850,011	8,163	99,875
Utah	276	706,598	133,249	99,472	29,203	19,360	99,604	47,512	34,251	195,658
Vermont	65	5,674	773	598	44	725	(D)	46	(D)	(D)
Virginia	140	24,331	4,397	4,301	1,974	2,481	13	434	1,361	(D)
Washington	653	384,899	102,152	98,816	31,579	9,094	62,702	74,363	16,558	123,665
West Virginia	2	(D)	(D)	(D)	(D)	-	-	(D)	-	-
Wisconsin	181	88,404	32,712	32,712	29,957	2,148	629	17,277	1,254	157
Wyoming	335	1,602,758	268,398	198,329	32,921	86,380	156,618	38,729	105,276	282,110
Water Resources Regions										
Region 01 New England	338	24,317	5,783	5,734	1,366	4,134	644	851	2,874	330
Region 02 Mid-Atlantic	893	184,195	50,082	49,896	38,096	11,904	503	18,195	6,560	457
Region 03 South Atlantic-Gulf	1,462	797,043	182,304	176,359	126,041	56,450	7,577	77,549	28,838	6,533
Region 04 Great Lakes	694	265,435	76,688	76,401	55,777	17,945	4,237	25,278	7,096	1,756
Region 05 Ohio	352	154,248	33,143	32,228	28,183	3,813	1,547	18,791	1,916	587
Region 06 Tennessee	73	(D)	(D)	(D)	(D)	2,729	880	(D)	1,527	529
Region 07 Upper Mississippi	714	423,551	145,467	145,179	133,881	7,249	5,016	81,671	4,052	3,343
Region 08 Lower Mississippi	1,056	977,753	594,191	591,536	553,746	51,748	1,763	582,478	75,369	524
Region 09 Souris-Red-Rainy	86	137,133	20,071	19,943	17,927	-	2,144	10,353	-	1,466
Region 10 Missouri	5,977	11,384,942	2,280,505	2,192,839	1,607,731	167,765	515,411	1,382,606	196,461	743,395
Region 11 Arkansas-White-Red	1,231	2,578,292	625,121	604,445	572,192	46,704	17,218	746,579	38,875	24,589
Region 12 Texas-Gulf	1,463	2,344,150	646,066	623,721	605,043	7,713	33,641	650,859	7,677	84,710
Region 13 Rio Grande	176	597,795	96,277	72,895	51,550	5,576	54,931	106,015	4,450	80,020
Region 14 Upper Colorado	243	1,206,883	188,103	107,889	3	40,813	153,171	1	49,443	328,332
Region 15 Lower Colorado	221	111,106	57,742	55,896	31,584	5,890	27,012	109,583	27,051	120,726
Region 16 Great Basin	405	882,455	246,330	187,982	97,745	79,160	98,306	261,360	158,417	169,280
Region 17 Pacific Northwest	2,363	3,337,011	736,260	656,417	215,964	113,426	422,452	358,685	212,128	834,201
Region 18 California	3,286	1,417,793	651,866	616,820	224,977	54,458	485,385	470,279	77,889	1,696,245
Region 19 Alaska	7	(D)	(D)	(D)	(D)	-	-	(D)	-	-
Region 20 Hawaii	102	58,569	2,632	1,802	566	990	1,782	566	451	3,695

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$500,000 to $999,999									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	18,652	38,871,270	9,918,317	9,578,884	7,321,629	1,022,930	1,980,898	8,749,323	1,312,602	3,945,919
2008 [2]	16,518	40,096,061	11,411,910	10,980,082	8,807,619	1,451,728	1,751,217	10,307,237	2,206,755	3,757,191
2013 DATA										
Alabama	67	45,283	10,575	10,575	2,326	6,946	(D)	1,208	3,976	(D)
Alaska	1	(D)	(D)	(D)	(D)	-	-	(D)	-	-
Arizona	167	173,748	88,021	85,800	39,626	(D)	54,892	136,669	(D)	248,816
Arkansas	759	1,263,481	980,787	980,787	896,928	140,293	7,625	1,121,501	158,421	10,089
California	3,148	1,709,176	887,913	843,997	431,633	177,971	439,527	1,086,589	341,316	1,381,189
Colorado	472	1,477,951	362,146	342,619	190,213	38,240	152,879	278,610	78,348	244,120
Connecticut	43	4,145	264	257	107	-	117	113	-	(D)
Delaware	53	55,447	19,552	19,552	18,592	1,224	(D)	10,212	592	(D)
Florida	552	271,530	85,336	75,982	72,183	10,221	13,716	65,526	5,626	12,089
Georgia	552	783,552	219,716	210,968	169,925	51,980	1,220	72,623	19,717	594
Hawaii	51	1,432	(D)	(D)	-	-	(D)	-	-	1,005
Idaho	513	516,646	393,175	364,854	162,177	65,392	182,970	254,093	106,763	344,898
Illinois	312	354,181	120,341	120,321	119,343	1,996	(D)	80,368	644	(D)
Indiana	240	231,333	68,576	68,561	64,980	5,594	849	35,014	2,915	410
Iowa	125	143,755	41,112	41,112	39,630	1,482	-	23,143	336	-
Kansas	907	2,404,068	613,777	613,777	598,643	11,956	8,789	718,939	9,126	6,005
Kentucky	61	41,100	8,379	8,327	7,505	796	79	2,086	317	86
Louisiana	328	461,432	233,765	233,765	187,621	32,730	15,234	274,499	52,037	28,098
Maine	32	5,532	540	540	3	(D)	(D)	6	(D)	(D)
Maryland	105	79,322	21,524	21,524	15,822	5,434	969	7,036	3,481	279
Massachusetts	83	13,807	4,424	4,424	569	3,408	401	690	3,779	261
Michigan	395	254,883	103,443	103,443	80,171	28,374	3,528	36,610	12,901	1,219
Minnesota	307	348,747	110,789	110,403	106,038	3,947	2,075	58,950	(D)	1,677
Mississippi	254	360,527	203,173	202,848	188,263	16,645	1,200	192,791	13,959	957
Missouri	353	507,433	264,428	264,428	252,440	12,379	904	235,014	11,470	176
Montana	406	2,698,648	298,272	269,504	8,168	37,964	256,482	6,724	37,734	338,855
Nebraska	3,352	6,317,370	2,381,921	2,366,709	2,161,619	71,088	177,192	2,063,543	48,049	187,356
Nevada	95	1,173,799	99,157	70,099	44,137	20,448	39,660	137,396	39,858	57,961
New Hampshire	16	(D)	16	16	(D)	-	-	(D)	-	-
New Jersey	123	51,987	16,944	16,944	11,409	8,775	(D)	5,134	3,258	(D)
New Mexico	136	976,088	91,777	91,523	73,033	10,218	8,638	167,469	10,233	14,218
New York	135	22,336	7,411	7,261	6,048	(D)	884	2,314	242	328
North Carolina	246	177,536	35,752	31,175	7,114	21,840	6,833	3,746	6,186	2,393
North Dakota	88	235,342	36,401	36,124	16,624	708	19,069	9,261	936	12,389
Ohio	73	42,151	9,830	9,830	7,407	2,602	112	3,218	2,336	21
Oklahoma	144	505,850	77,057	66,945	68,129	2,800	6,126	90,060	(D)	4,637
Oregon	502	1,349,123	207,023	166,660	82,446	31,431	102,345	127,844	59,028	189,874
Pennsylvania	150	48,657	3,897	3,747	663	2,303	762	(D)	476	594
Rhode Island	26	(D)	847	847	(D)	731	(D)	3	636	(D)
South Carolina	84	79,055	20,449	19,689	15,110	(D)	(D)	6,749	1,927	(D)
South Dakota	196	470,111	80,692	79,699	62,321	7,014	12,293	37,182	4,752	13,627
Tennessee	96	122,588	15,775	15,775	10,254	4,806	861	4,639	1,409	116
Texas	1,237	6,561,304	940,024	916,031	849,128	13,511	78,482	1,010,529	42,923	130,990
Utah	194	702,698	160,271	137,816	55,039	45,905	92,952	130,972	61,011	191,019
Vermont	18	2,584	110	110	(D)	(D)	80	(D)	(D)	80
Virginia	80	57,599	5,454	4,924	(D)	4,524	307	837	2,212	571
Washington	806	1,075,386	243,944	236,708	88,522	39,895	121,418	165,832	82,503	285,275
West Virginia	6	(D)	12	12	14	-	-	12	-	-
Wisconsin	262	239,488	71,233	71,108	66,436	7,013	-	41,194	11,122	-
Wyoming	301	4,451,009	271,352	229,834	42,335	66,000	166,877	41,771	66,528	232,634
Water Resources Regions										
Region 01 New England	200	24,886	6,091	6,084	706	4,611	682	826	4,487	432
Region 02 Mid-Atlantic	555	259,986	71,950	71,120	52,795	21,666	1,777	25,702	9,564	888
Region 03 South Atlantic-Gulf	1,555	1,442,353	378,716	355,277	265,837	105,996	21,136	149,246	42,853	15,178
Region 04 Great Lakes	593	364,667	144,141	144,126	118,498	31,666	4,750	61,412	15,004	1,716
Region 05 Ohio	321	281,694	63,056	63,004	57,164	5,590	(D)	27,341	3,763	433
Region 06 Tennessee	48	(D)	8,423	8,423	(D)	4,175	3,098	(D)	1,310	1,160
Region 07 Upper Mississippi	928	1,012,724	310,046	309,515	293,489	(D)	1,075	180,331	22,618	528
Region 08 Lower Mississippi	1,386	2,121,395	1,421,559	1,421,234	1,302,212	168,274	19,734	1,555,239	207,793	31,076
Region 09 Souris-Red-Rainy	47	92,380	20,311	20,253	18,371	(D)	1,652	11,249	(D)	1,497
Region 10 Missouri	5,052	15,741,952	3,456,774	3,380,284	2,641,910	192,188	665,601	2,544,829	167,158	869,417
Region 11 Arkansas-White-Red	1,258	3,375,072	1,033,786	1,000,575	966,373	19,704	55,874	1,240,404	17,002	66,934
Region 12 Texas-Gulf	970	5,407,162	697,800	685,652	600,675	21,036	76,758	682,280	50,127	127,070
Region 13 Rio Grande	166	1,296,833	112,249	106,242	97,712	10,715	16,762	226,841	8,815	20,138
Region 14 Upper Colorado	97	732,280	97,381	90,939	(D)	33,250	63,696	372	71,802	111,634
Region 15 Lower Colorado	174	182,108	93,541	90,120	43,266	(D)	56,772	149,109	(D)	252,576
Region 16 Great Basin	258	1,374,126	249,988	200,417	94,789	73,908	119,944	255,493	116,712	213,976
Region 17 Pacific Northwest	1,827	3,370,812	836,560	768,579	321,735	131,076	416,206	537,141	231,541	823,236
Region 18 California	3,165	1,754,243	915,005	856,110	444,243	177,971	454,009	1,100,504	341,316	1,407,026
Region 19 Alaska	1	(D)	(D)	(D)	(D)	-	-	(D)	-	-
Region 20 Hawaii	51	1,432	(D)	(D)	-	-	(D)	-	-	1,005

See footnote(s) at end of table.

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Table 20. **Irrigated Farms by Market Value of Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	$1,000,000 or more									
	Farms with irrigation				Water source [1]			Quantity of water applied [1]		
	Farms	Land in farms (acres)	Acres irrigated	Irrigated cropland harvested (acres)	Ground water used (acres)	On-farm surface used (acres)	Off-farm water used (acres)	Ground water used (acre-feet)	On-farm surface used (acre-feet)	Off-farm water used (acre-feet)
United States 2013	22,060	82,010,112	29,139,123	28,233,706	21,071,139	3,373,341	6,473,714	29,240,811	5,212,149	15,411,554
2008 [2]	15,782	56,639,166	23,275,251	22,514,577	16,481,909	3,124,610	5,440,937	24,931,364	4,827,958	14,418,803
2013 DATA										
Alabama	146	322,180	70,792	70,792	36,543	25,944	8,630	17,976	10,339	2,797
Alaska	5	60	30	30	-	-	30	-	-	(D)
Arizona	258	950,432	579,334	565,217	185,404	89,652	382,485	621,771	286,383	1,708,775
Arkansas	1,225	3,818,078	3,272,955	3,266,277	2,981,349	441,763	45,298	3,698,337	628,377	48,095
California	4,869	7,815,174	5,348,178	5,014,200	2,821,988	748,497	2,761,489	7,393,911	1,339,368	7,970,695
Colorado	403	2,972,362	636,714	605,777	487,273	56,948	123,494	761,793	96,190	169,114
Connecticut	54	24,131	2,969	2,969	803	1,994	(D)	1,252	2,108	283
Delaware	71	151,827	67,822	67,822	64,373	3,620	600	33,698	302	560
Florida	879	2,105,445	1,066,270	1,022,114	536,271	215,267	371,801	534,931	282,834	500,002
Georgia	710	1,720,487	776,029	769,367	654,602	134,537	5,550	334,791	71,040	2,835
Hawaii	59	126,398	63,177	38,073	27,786	5,690	52,625	(D)	13,932	139,964
Idaho	770	2,984,616	1,816,217	1,758,912	922,570	243,671	701,504	1,668,826	480,540	1,265,195
Illinois	372	1,040,485	325,303	325,291	314,631	5,693	6,620	215,863	3,429	6,626
Indiana	392	1,070,640	297,599	297,009	268,339	27,600	4,456	129,927	14,484	2,768
Iowa	155	385,060	94,752	94,514	90,718	2,864	2,323	46,031	857	1,100
Kansas	1,061	5,321,268	1,464,071	1,459,591	1,452,865	5,285	11,051	1,826,017	1,011	3,940
Kentucky	67	220,776	32,516	32,516	16,075	16,487	217	(D)	8,166	113
Louisiana	387	1,162,561	632,162	632,162	514,304	106,775	19,371	558,462	171,403	25,597
Maine	24	111,247	17,239	12,526	10,510	7,369	1,166	2,923	2,594	(D)
Maryland	128	160,717	47,430	47,422	37,876	8,629	1,469	18,142	3,150	573
Massachusetts	100	47,357	12,575	12,462	4,563	11,339	979	684	18,757	389
Michigan	526	875,605	366,105	365,578	305,663	67,264	2,859	168,131	40,685	2,323
Minnesota	304	853,265	247,038	245,820	226,305	13,891	8,878	150,527	10,707	7,901
Mississippi	573	1,939,065	1,314,851	1,314,771	1,255,969	60,250	2,868	1,320,318	62,278	2,026
Missouri	387	1,085,213	720,516	720,376	695,535	25,712	2,843	739,737	11,514	1,648
Montana	254	5,943,303	464,896	387,051	16,872	160,719	297,162	18,277	265,187	415,657
Nebraska	2,288	6,625,894	3,669,155	3,650,987	3,499,218	77,398	132,694	3,598,804	58,192	145,639
Nevada	114	2,190,696	276,307	212,763	189,724	62,559	80,272	549,389	149,378	158,438
New Hampshire	10	(D)	1,785	1,785	(D)	(D)	960	(D)	(D)	352
New Jersey	161	88,164	41,366	41,173	32,856	12,564	153	18,143	9,224	(D)
New Mexico	265	2,597,602	288,672	268,737	160,550	63,215	91,535	288,200	69,953	197,250
New York	136	121,153	24,841	24,841	13,998	8,500	2,272	5,931	5,336	673
North Carolina	234	453,726	69,634	67,661	24,525	42,787	2,582	6,686	21,907	624
North Dakota	146	744,273	125,543	124,310	107,641	5,825	12,106	79,191	2,170	8,339
Ohio	143	83,345	23,287	23,287	13,022	8,693	2,497	7,134	6,639	1,202
Oklahoma	103	411,613	143,726	134,134	136,107	2,490	9,042	190,662	3,804	5,836
Oregon	669	2,635,990	691,905	643,490	264,628	198,363	282,672	442,421	354,605	550,138
Pennsylvania	95	(D)	5,963	5,963	1,962	3,493	578	463	1,377	269
Rhode Island	3	(D)	261	261	-	262	-	-	232	-
South Carolina	150	275,209	91,772	90,017	70,801	23,116	537	43,280	14,994	526
South Dakota	198	1,108,843	168,302	167,582	117,029	17,512	34,007	75,542	14,873	36,035
Tennessee	183	528,533	111,084	110,884	101,930	8,049	1,257	41,425	2,896	921
Texas	1,259	14,267,228	1,837,799	1,782,958	1,675,357	59,525	121,735	2,419,636	119,452	161,494
Utah	295	774,254	195,584	182,919	91,066	26,328	104,497	202,594	37,961	216,715
Vermont	4	1,247	267	267	(D)	(D)	(D)	(D)	(D)	(D)
Virginia	128	196,395	31,725	31,725	2,250	26,830	2,931	1,664	13,046	1,573
Washington	797	1,504,320	1,013,525	1,002,072	314,416	160,583	579,870	663,005	355,134	1,328,323
West Virginia	3	(D)	550	550	550	-	-	124	-	-
Wisconsin	370	792,431	324,172	323,784	296,310	25,038	5,931	222,637	50,100	13,651
Wyoming	127	3,328,347	264,358	212,917	27,763	52,401	189,535	35,791	95,120	304,272
Water Resources Regions										
Region 01 New England	192	189,419	34,939	30,113	16,066	21,227	3,380	4,931	23,799	1,150
Region 02 Mid-Atlantic	616	634,491	200,885	200,684	147,109	53,975	5,499	74,971	25,736	3,110
Region 03 South Atlantic-Gulf	2,125	4,919,248	2,068,678	2,014,132	1,314,652	449,304	383,806	933,699	406,984	505,036
Region 04 Great Lakes	830	1,295,846	512,024	511,067	430,981	85,555	6,566	238,200	54,276	3,810
Region 05 Ohio	418	1,053,842	220,351	220,191	193,294	25,218	3,385	94,134	(D)	1,191
Region 06 Tennessee	84	206,875	39,798	39,598	13,588	18,966	7,302	(D)	9,624	(D)
Region 07 Upper Mississippi	1,075	2,601,461	883,348	881,540	807,442	65,878	17,790	563,773	72,670	23,909
Region 08 Lower Mississippi	2,320	7,456,285	5,433,520	5,430,440	5,035,038	547,564	48,372	5,728,285	759,355	48,333
Region 09 Souris-Red-Rainy	138	636,606	109,586	108,890	92,428	7,520	10,060	63,088	(D)	7,660
Region 10 Missouri	3,692	20,436,619	5,473,341	5,329,196	4,477,126	362,827	700,174	4,636,963	504,382	966,951
Region 11 Arkansas-White-Red	1,476	7,868,504	2,712,710	2,665,732	2,578,602	94,259	76,827	3,539,573	188,388	92,764
Region 12 Texas-Gulf	757	5,400,152	1,036,689	1,009,819	888,414	45,942	119,410	1,161,724	50,799	160,305
Region 13 Rio Grande	416	8,792,968	313,410	273,898	251,709	36,074	60,912	553,642	54,263	77,465
Region 14 Upper Colorado	185	1,352,585	119,012	108,842	13,600	23,689	81,723	26,980	26,875	198,299
Region 15 Lower Colorado	268	1,114,992	598,794	583,157	186,904	106,012	384,085	626,121	364,383	1,713,095
Region 16 Great Basin	310	2,803,226	459,472	404,998	255,360	72,497	198,780	693,365	171,889	374,467
Region 17 Pacific Northwest	2,183	7,229,979	3,463,344	3,339,234	1,490,473	603,068	1,523,514	2,738,840	1,192,473	3,062,297
Region 18 California	4,911	7,890,556	5,396,015	5,044,072	2,850,568	748,077	2,789,475	7,476,493	1,274,624	8,028,981
Region 19 Alaska	5	60	30	30	-	-	30	-	-	(D)
Region 20 Hawaii	59	126,398	63,177	38,073	27,786	5,690	52,625	(D)	13,932	139,964

[1] May not add due to rounding.
[2] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 21. **Irrigated Farms by Percent of Total Sales from Irrigated Crops and Livestock: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms by percent of total sales from -									
	Irrigated crop						Non-irrigated crop or livestock			
	None	1 to 24 percent	25 to 49 percent	50 to 74 percent	75 to 99 percent	100 percent	None	1 to 49 percent	50 to 99 percent	100 percent
United States 2013	19,009	28,253	18,970	29,242	40,442	93,321	93,321	59,448	57,459	19,009
2008	9,523	15,676	12,589	17,622	40,549	139,756	139,756	49,865	36,571	9,523
2013 DATA										
Alabama	36	216	145	193	130	302	302	214	470	36
Alaska	4	33	8	13	10	113	113	11	53	4
Arizona	1,030	291	191	391	338	2,139	2,139	456	755	1,030
Arkansas	71	227	296	541	1,207	1,870	1,870	1,589	682	71
California	2,110	1,496	363	2,717	1,711	35,950	35,950	3,919	2,368	2,110
Colorado	992	1,533	988	2,125	2,943	3,920	3,920	4,603	2,986	992
Connecticut	7	129	83	147	95	254	254	120	334	7
Delaware	-	51	63	97	99	86	86	185	125	-
Florida	405	486	513	866	1,012	4,838	4,838	1,564	1,313	405
Georgia	133	448	565	758	713	928	928	1,206	1,278	133
Hawaii	41	85	162	282	115	1,234	1,234	219	425	41
Idaho	4,004	529	492	1,496	3,338	4,233	4,233	4,109	1,746	4,004
Illinois	5	441	315	458	304	284	284	587	931	5
Indiana	9	563	431	327	271	292	292	415	1,177	9
Iowa	5	323	209	173	113	267	267	229	589	5
Kansas	-	1,402	1,045	859	1,403	534	534	2,013	2,696	-
Kentucky	12	408	177	241	106	268	268	197	735	12
Louisiana	71	173	202	508	545	631	631	868	560	71
Maine	-	244	92	117	63	430	430	99	417	-
Maryland	3	111	109	221	223	223	223	361	303	3
Massachusetts	7	92	189	279	112	719	719	219	453	7
Michigan	2	781	508	656	675	1,040	1,040	1,047	1,573	2
Minnesota	1	462	414	455	412	418	418	709	1,034	1
Mississippi	35	156	194	347	515	596	596	769	443	35
Missouri	83	545	336	446	624	535	535	944	1,007	83
Montana	905	2,004	673	940	1,804	1,058	1,058	2,522	2,899	905
Nebraska	-	2,998	2,636	1,962	5,739	2,412	2,412	7,393	5,942	-
Nevada	430	193	141	172	406	807	807	503	409	430
New Hampshire	-	93	71	61	70	233	233	93	202	-
New Jersey	16	161	125	162	296	495	495	397	347	16
New Mexico	1,015	861	458	772	1,090	4,537	4,537	1,527	1,654	1,015
New York	4	365	222	308	239	798	798	402	732	4
North Carolina	38	651	286	422	383	930	930	622	1,120	38
North Dakota	-	204	149	47	60	73	73	80	380	-
Ohio	15	420	169	266	184	399	399	285	754	15
Oklahoma	106	531	270	298	233	234	234	399	933	106
Oregon	2,258	1,533	747	1,768	3,084	2,909	2,909	4,309	2,823	2,258
Pennsylvania	2	806	460	661	365	832	832	632	1,660	2
Rhode Island	10	10	10	93	51	120	120	84	80	10
South Carolina	19	161	141	196	246	283	283	328	416	19
South Dakota	-	388	324	286	210	66	66	401	807	-
Tennessee	5	348	181	160	117	297	297	168	638	5
Texas	1,122	1,966	1,277	1,797	2,796	4,301	4,301	4,314	3,522	1,122
Utah	1,622	515	820	1,209	2,641	3,550	3,550	3,427	1,758	1,622
Vermont	-	99	56	128	99	185	185	143	239	-
Virginia	12	294	234	346	120	336	336	319	675	12
Washington	1,793	761	400	1,420	1,639	4,562	4,562	2,161	2,059	1,793
West Virginia	-	94	35	53	38	77	77	52	168	-
Wisconsin	-	473	330	418	415	791	791	658	978	-
Wyoming	571	1,099	665	584	1,040	932	932	1,577	1,811	571
Water Resources Regions										
Region 01 New England	24	604	465	747	418	1,840	1,840	645	1,589	24
Region 02 Mid-Atlantic	35	1,351	1,006	1,525	1,175	2,233	2,233	1,975	3,082	35
Region 03 South Atlantic-Gulf	647	2,001	1,666	2,459	2,554	7,418	7,418	4,014	4,666	647
Region 04 Great Lakes	5	1,440	884	1,269	1,101	1,763	1,763	1,781	2,913	5
Region 05 Ohio	37	1,391	758	768	485	1,115	1,115	798	2,604	37
Region 06 Tennessee	22	320	156	190	84	367	367	149	601	22
Region 07 Upper Mississippi	10	1,517	1,160	1,293	1,140	1,545	1,545	1,976	3,134	10
Region 08 Lower Mississippi	103	391	676	1,375	2,344	2,793	2,793	3,326	1,460	103
Region 09 Souris-Red-Rainy	1	151	122	79	61	52	52	114	299	1
Region 10 Missouri	1,022	7,733	4,842	4,377	9,864	5,736	5,736	13,412	13,404	1,022
Region 11 Arkansas-White-Red	664	2,639	1,272	1,738	2,228	1,905	1,905	3,535	4,342	664
Region 12 Texas-Gulf	731	1,519	1,236	1,441	2,149	3,491	3,491	3,300	3,045	731
Region 13 Rio Grande	1,255	705	256	780	1,128	5,071	5,071	1,638	1,231	1,255
Region 14 Upper Colorado	1,420	855	1,171	1,646	2,552	2,708	2,708	3,726	2,498	1,420
Region 15 Lower Colorado	1,369	305	219	535	374	2,290	2,290	506	927	1,369
Region 16 Great Basin	1,248	541	758	978	2,136	3,780	3,780	2,755	1,658	1,248
Region 17 Pacific Northwest	8,126	3,146	1,742	5,000	8,734	11,695	11,695	11,544	7,078	8,126
Region 18 California	2,245	1,526	411	2,747	1,790	36,172	36,172	4,024	2,450	2,245
Region 19 Alaska	4	33	8	13	10	113	113	11	53	4
Region 20 Hawaii	41	85	162	282	115	1,234	1,234	219	425	41

Table 22. **Methods Used in Deciding When to Irrigate: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All farms	Farms reporting method used [1]										
		Any method	Condition of crop	Feel of soil	Soil moisture sensing device	Plant moisture sensing device	Commercial or government scheduling service	Reports on daily crop-water evapo-transpiration (ET)	Scheduled by water delivery organization	Personal calendar schedule	Computer simulation models	When neighbors begin to irrigate
United States	229,237	229,237	179,490	90,361	22,656	3,669	17,982	17,815	37,301	49,048	1,915	13,717
Alabama	1,022	1,022	919	426	70	1	34	41	6	168	2	6
Alaska	181	181	150	94	15	7	-	-	-	16	-	-
Arizona	4,380	4,380	3,171	1,964	174	21	356	288	694	1,029	5	68
Arkansas	4,212	4,212	3,978	1,452	222	53	186	140	31	707	35	234
California	44,347	44,347	33,163	18,097	7,429	2,127	3,132	5,206	5,344	14,922	715	3,673
Colorado	12,501	12,501	8,270	4,229	673	78	1,058	487	5,493	1,946	29	1,469
Connecticut	715	715	641	340	33	11	3	22	3	71	3	20
Delaware	396	396	354	192	60	10	39	44	2	73	16	30
Florida	8,120	8,120	6,865	2,971	803	181	468	351	127	1,165	171	138
Georgia	3,545	3,545	3,128	1,401	309	22	237	233	7	432	27	75
Hawaii	1,919	1,919	1,628	650	53	11	21	29	35	489	15	33
Idaho	14,092	14,092	10,025	5,867	521	61	1,208	814	5,168	4,124	5	728
Illinois	1,807	1,807	1,692	801	104	14	62	134	9	196	18	111
Indiana	1,893	1,893	1,770	845	151	29	53	192	7	197	13	161
Iowa	1,090	1,090	1,007	502	128	6	18	90	5	142	6	56
Kansas	5,243	5,243	4,340	1,646	596	50	1,525	900	130	542	55	66
Kentucky	1,212	1,212	1,046	465	80	9	8	12	8	179	-	30
Louisiana	2,130	2,130	1,936	695	62	17	80	65	13	321	18	31
Maine	946	946	818	352	19	11	43	1	-	126	1	-
Maryland	890	890	817	524	86	11	9	38	5	135	7	17
Massachusetts	1,398	1,398	1,233	739	122	-	31	82	7	140	13	19
Michigan	3,662	3,662	3,172	2,111	318	28	146	438	13	626	65	82
Minnesota	2,162	2,162	1,924	1,135	246	34	208	299	20	273	34	123
Mississippi	1,843	1,843	1,684	842	203	6	98	92	6	274	10	104
Missouri	2,569	2,569	2,436	1,159	162	22	152	179	12	383	33	142
Montana	7,384	7,384	5,674	2,393	446	26	376	187	1,959	1,789	11	693
Nebraska	15,747	15,747	13,491	6,957	3,599	45	2,549	3,792	1,449	1,496	113	619
Nevada	2,149	2,149	1,170	578	53	12	230	80	923	488	8	246
New Hampshire	528	528	483	262	32	1	-	2	-	88	1	-
New Jersey	1,255	1,255	1,118	569	175	36	7	22	5	149	1	11
New Mexico	8,733	8,733	4,988	2,659	203	20	1,239	255	2,934	1,569	2	1,586
New York	1,936	1,936	1,836	952	146	2	12	73	10	247	6	16
North Carolina	2,710	2,710	2,403	1,286	106	10	6	149	22	410	15	15
North Dakota	533	533	435	298	56	11	65	70	20	97	10	23
Ohio	1,453	1,453	1,322	688	92	17	11	27	5	164	-	4
Oklahoma	1,672	1,672	1,467	648	181	4	131	136	24	334	1	42
Oregon	12,299	12,299	8,923	4,355	999	156	776	649	2,899	3,065	26	417
Pennsylvania	3,126	3,126	2,865	1,278	128	3	14	63	2	333	8	62
Rhode Island	294	294	272	168	4	12	-	14	-	40	-	-
South Carolina	1,046	1,046	940	418	67	7	38	29	7	182	7	2
South Dakota	1,274	1,274	1,091	550	121	14	45	103	88	218	-	66
Tennessee	1,108	1,108	988	349	95	9	23	35	10	185	12	18
Texas	13,259	13,259	11,494	5,695	1,289	217	559	869	549	2,795	37	426
Utah	10,357	10,357	6,137	2,215	370	159	2,060	272	5,223	2,532	135	706
Vermont	567	567	494	326	14	2	-	17	3	74	-	-
Virginia	1,342	1,342	1,214	614	114	7	11	26	12	298	18	10
Washington	10,575	10,575	8,247	4,444	1,236	55	295	359	2,161	2,001	181	586
West Virginia	297	297	261	148	24	3	3	9	3	31	3	3
Wisconsin	2,427	2,427	2,226	1,288	387	21	98	333	10	388	21	81
Wyoming	4,891	4,891	3,784	1,724	80	-	259	67	1,838	1,399	3	669
Water Resources Regions												
Region 01 New England	4,098	4,098	3,632	1,949	215	37	77	124	10	490	18	39
Region 02 Mid-Atlantic	7,325	7,325	6,716	3,491	630	67	82	229	20	1,078	50	142
Region 03 South Atlantic-Gulf	16,745	16,745	14,506	6,548	1,376	221	799	821	165	2,401	224	288
Region 04 Great Lakes	6,462	6,462	5,806	3,459	550	43	188	667	27	943	75	144
Region 05 Ohio	4,554	4,554	4,077	1,941	262	47	38	119	30	541	27	121
Region 06 Tennessee	1,139	1,139	1,011	420	62	5	11	19	20	165	-	13
Region 07 Upper Mississippi	6,665	6,665	6,141	3,335	756	65	362	752	33	920	61	382
Region 08 Lower Mississippi	7,682	7,682	7,109	2,849	534	71	430	342	39	1,267	83	335
Region 09 Souris-Red-Rainy	466	466	374	254	41	8	49	46	15	52	10	11
Region 10 Missouri	33,574	33,574	27,877	13,456	5,010	229	3,896	4,908	5,545	5,031	159	2,044
Region 11 Arkansas-White-Red	10,446	10,446	8,285	3,819	833	43	1,465	983	1,270	1,594	87	206
Region 12 Texas-Gulf	10,567	10,567	9,030	4,560	1,040	208	359	619	229	2,417	24	461
Region 13 Rio Grande	9,195	9,195	5,524	2,906	221	16	1,176	344	3,297	1,158	2	1,811
Region 14 Upper Colorado	10,352	10,352	6,695	3,308	498	124	1,458	157	4,402	2,722	108	1,150
Region 15 Lower Colorado	5,092	5,092	3,488	1,836	174	21	430	293	1,139	1,315	5	124
Region 16 Great Basin	9,441	9,441	5,206	2,025	203	47	2,106	263	4,924	2,131	40	640
Region 17 Pacific Northwest	38,443	38,443	28,759	15,211	2,735	272	1,881	1,892	10,514	9,239	212	2,073
Region 18 California	44,891	44,891	33,476	18,250	7,448	2,127	3,154	5,208	5,587	15,079	715	3,700
Region 19 Alaska	181	181	150	94	15	7	-	-	-	16	-	-
Region 20 Hawaii	1,919	1,919	1,628	650	53	11	21	29	35	489	15	33

[1] Respondents could choose more than one method.

Table 23. **Farms Using Recycled or Reclaimed Water: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Recycled water used [1]				Reclaimed water									
	Acres in the open		Area under protection		Acres in the open		Area under protection			Source of reclaimed water [2]				
	Farms	Acres irrigated	Farms	Square feet	Farms [3]	Acres irrigated	Farms [3]	Square feet	Total acre-feet applied	Municipal	Industrial	On-farm livestock operation	Off-farm livestock operation	Other
United States 2013	5,718	1,080,526	535	164,777,627	2,323	309,075	216	6,739,618	341,784	766	56	962	159	557
2008 [4]	10,898	1,850,551	827	222,018,512	3,387	711,933	48	2,432,209	635,035	586	165	1,327	211	1,192
2013 DATA														
Alabama	22	660	4	842,400	26	420	-	-	180	12	-	6	-	-
Alaska	-	-	4	8,404	-	-	-	-	-	-	-	-	-	-
Arizona	155	12,513	2	(D)	79	15,092	-	-	48,401	32	9	-	-	48
Arkansas	667	388,239	4	2,000,000	30	2,606	6	255,168	3,130	6	-	24	-	6
California	876	312,954	36	26,499,723	344	104,710	37	1,060,622	151,386	112	5	197	-	46
Colorado	102	19,477	-	-	99	10,918	-	-	1,449	8	-	7	85	20
Connecticut	1	(D)	9	320,003	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	4	280	-	-	166	4	-	-	-	-
Florida	182	29,761	79	5,451,979	69	14,434	30	1,576,320	10,812	24	8	54	-	8
Georgia	133	11,682	9	299,450	50	4,245	-	-	543	-	-	41	4	5
Hawaii	22	72	-	-	38	544	25	2,017,520	598	41	-	-	-	17
Idaho	99	17,929	9	1,568,160	57	13,783	-	-	12,868	21	1	4	-	31
Illinois	73	2,426	14	96,250	1	(D)	-	-	(D)	-	-	1	-	-
Indiana	63	1,225	12	241,200	8	1,190	-	-	492	-	-	8	-	-
Iowa	10	130	-	-	17	1,547	5	103,800	533	11	-	10	-	1
Kansas	83	5,525	12	2,900,800	76	3,542	-	-	1,814	34	-	41	1	-
Kentucky	53	1,215	15	112,615	4	346	-	-	(D)	-	-	4	-	-
Louisiana	123	35,389	11	450,400	21	3,341	17	403,200	1,292	1	-	12	-	8
Maine	39	(D)	-	-	3	150	8	32,000	23	8	-	3	-	-
Maryland	38	733	9	1,435,000	7	710	-	-	80	-	-	7	-	-
Massachusetts	174	8,245	21	330,600	7	14	-	-	14	7	-	-	-	-
Michigan	38	2,615	38	5,409,200	21	3,352	5	5,000	999	6	6	14	-	6
Minnesota	30	2,747	5	810,000	5	1,188	-	-	627	4	-	1	-	-
Mississippi	159	14,417	-	-	25	1,895	-	-	1,551	-	-	25	-	-
Missouri	27	7,145	7	42,960	14	1,185	-	-	415	2	-	12	-	-
Montana	30	11,585	-	-	29	3,089	-	-	1,840	19	-	5	4	1
Nebraska	777	42,041	-	-	97	10,160	-	-	8,213	-	-	83	14	-
Nevada	87	7,839	-	-	8	4,260	-	-	7,486	5	-	-	3	-
New Hampshire	1	(D)	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	32	1,662	2	(D)	-	-	-	-	-	-	-	-	-	-
New Mexico	215	5,217	-	-	63	5,772	-	-	6,292	27	-	12	-	24
New York	10	(D)	12	13,093,050	11	11	5	150,000	11	11	-	-	-	-
North Carolina	173	9,808	6	15,928,360	246	18,042	7	12,600	7,214	9	-	223	19	2
North Dakota	3	270	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	67	2,942	28	4,284,614	1	(D)	5	750,000	15	5	-	1	-	-
Oklahoma	9	1,912	2	(D)	18	2,205	-	-	540	13	10	5	-	-
Oregon	262	22,837	37	13,991,020	159	16,672	-	-	22,761	96	-	34	3	26
Pennsylvania	48	1,863	15	53,724	36	788	6	8,640	353	6	2	34	-	-
Rhode Island	12	137	-	-	23	47	23	130,100	23	23	-	-	-	-
South Carolina	66	3,062	16	112,800	16	860	5	17,000	266	8	-	8	-	5
South Dakota	2	(D)	-	-	6	3,670	-	-	1,627	-	-	4	-	3
Tennessee	37	696	26	1,499,320	16	(D)	12	146,000	48	14	-	9	-	-
Texas	412	38,805	43	54,083,393	277	20,858	8	5,600	9,258	40	-	18	5	222
Utah	39	9,468	-	-	249	16,338	-	-	17,046	143	-	29	21	56
Vermont	8	8	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	56	2,724	44	5,960,814	9	2,338	7	6,048	(D)	9	-	7	-	2
Washington	36	7,994	-	-	24	10,288	-	-	12,234	-	3	15	-	6
West Virginia	9	21	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	112	16,879	4	18,000	12	1,285	5	60,000	887	5	12	-	-	-
Wyoming	46	14,654	-	-	18	6,386	-	-	6,542	-	-	4	-	14
Water Resources Regions														
Region 01 New England	227	9,575	30	650,603	33	211	31	162,100	60	38	-	3	-	-
Region 02 Mid-Atlantic	138	6,545	55	7,899,342	57	2,414	6	8,640	679	18	2	43	-	2
Region 03 South Atlantic-Gulf	648	58,169	127	22,024,603	417	40,448	35	1,593,320	20,673	46	8	350	23	20
Region 04 Great Lakes	80	5,223	64	22,614,120	31	3,757	10	155,000	1,038	11	8	17	-	6
Region 05 Ohio	224	3,667	67	2,012,061	15	1,531	7	806,000	625	7	-	15	-	-
Region 06 Tennessee	4	48	2	(D)	15	41	24	108,648	52	26	-	-	-	-
Region 07 Upper Mississippi	212	22,117	23	924,250	19	2,757	5	60,000	1,528	11	10	3	-	-
Region 08 Lower Mississippi	832	408,564	15	2,450,400	52	5,817	17	403,200	5,174	-	-	38	-	14
Region 09 Souris-Red-Rainy	3	1,200	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	955	72,292	11	63,760	284	31,488	5	103,800	19,223	37	-	160	83	11
Region 11 Arkansas-White-Red	166	48,905	10	9,120,908	80	8,524	6	255,168	3,956	56	10	24	6	-
Region 12 Texas-Gulf	391	27,653	43	54,083,393	274	19,783	8	5,600	9,094	41	-	19	-	222
Region 13 Rio Grande	186	3,357	-	-	30	2,880	-	-	3,738	24	-	6	-	-
Region 14 Upper Colorado	47	15,516	-	-	31	6,880	-	-	1,800	8	-	-	20	23
Region 15 Lower Colorado	232	13,277	2	(D)	107	15,732	-	-	49,965	36	9	-	-	72
Region 16 Great Basin	64	16,047	-	-	245	20,350	-	-	23,712	136	-	29	24	56
Region 17 Pacific Northwest	389	51,505	46	15,559,180	233	33,858	-	-	36,897	118	4	46	3	62
Region 18 California	898	316,794	36	26,499,723	362	112,060	37	1,060,622	162,972	112	5	209	-	52
Region 19 Alaska	-	-	4	8,404	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	22	72	-	-	38	544	25	2,017,520	598	41	-	-	-	17

[1] Amount of recycled water applied was not collected.
[2] Respondents could report more than one source of reclaimed water.
[3] Respondents reported reclaimed water for the operation and if acres in the open and square feet under protection were reported on the operation
[4] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 24. **Technical and Financial Assistance Received During the Past Five Years for Irrigation or Drainage Improvements: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total [1]			USDA programs for water conservation and environmental improvements (CTA, EQIP, AWEP, WHIP, CIG)			Other USDA programs for stewardship (CSP) or easements (CRP, WRP, GRP, FRPP)		
	Farms	Farms receiving technical assistance	Farms receiving financial assistance	Farms	Farms receiving technical assistance	Farms receiving financial assistance	Farms	Farms receiving technical assistance	Farms receiving financial assistance
United States	26,659	19,784	19,453	14,375	10,120	12,444	3,579	2,043	2,679
Alabama	119	75	88	63	42	55	9	9	1
Alaska	10	10	5	2	2	2	3	3	3
Arizona	468	424	225	239	215	198	33	32	9
Arkansas	700	509	631	459	363	371	291	164	257
California	4,243	2,874	3,093	2,320	1,021	2,227	353	97	292
Colorado	1,626	1,435	970	1,108	929	922	120	85	71
Connecticut	87	65	80	80	51	80	-	-	-
Delaware	114	79	100	71	54	68	13	5	12
Florida	596	459	329	290	203	209	60	33	36
Georgia	672	429	502	455	288	329	137	99	84
Hawaii	129	102	85	81	73	52	17	17	14
Idaho	1,984	1,731	1,265	551	481	491	93	65	49
Illinois	164	92	120	21	17	19	10	10	6
Indiana	294	172	230	86	58	72	17	15	10
Iowa	123	77	76	25	12	25	19	4	15
Kansas	777	566	621	334	261	316	284	171	253
Kentucky	84	60	50	36	29	24	14	7	7
Louisiana	262	195	206	185	145	169	43	20	39
Maine	95	94	75	78	69	72	13	13	2
Maryland	103	59	72	37	22	33	5	-	5
Massachusetts	273	177	246	244	148	219	22	8	15
Michigan	510	343	336	135	96	102	73	27	71
Minnesota	321	202	257	160	95	128	28	17	27
Mississippi	318	223	275	238	153	220	62	45	50
Missouri	521	371	391	272	213	216	173	137	150
Montana	666	605	414	360	334	229	28	12	20
Nebraska	2,685	1,573	2,268	1,263	885	1,235	334	138	279
Nevada	181	125	166	147	90	147	29	13	20
New Hampshire	57	55	40	40	38	40	-	-	-
New Jersey	141	117	135	127	104	123	12	10	7
New Mexico	900	802	570	846	775	480	105	31	102
New York	254	151	171	90	45	80	22	16	18
North Carolina	242	218	107	74	67	55	21	6	18
North Dakota	89	72	89	84	69	81	12	-	12
Ohio	104	78	61	26	20	24	2	2	-
Oklahoma	238	170	183	133	100	124	30	25	23
Oregon	1,583	1,266	1,186	755	465	591	242	53	222
Pennsylvania	158	111	92	82	46	79	35	8	33
Rhode Island	52	49	41	40	37	29	1	1	1
South Carolina	94	48	70	39	26	24	15	7	10
South Dakota	202	122	178	94	63	71	47	29	30
Tennessee	156	87	118	50	34	37	39	17	32
Texas	1,714	1,133	1,328	958	578	922	240	216	73
Utah	902	805	738	590	511	566	294	268	175
Vermont	68	68	27	35	35	27	3	3	3
Virginia	89	80	50	65	57	48	15	8	7
Washington	679	577	511	437	333	379	76	58	37
West Virginia	24	19	18	16	16	13	8	-	8
Wisconsin	248	171	183	85	57	76	34	8	28
Wyoming	540	459	381	369	295	345	43	31	43
Water Resources Regions									
Region 01 New England	627	503	493	493	354	451	39	25	21
Region 02 Mid-Atlantic	678	470	523	409	265	388	92	37	79
Region 03 South Atlantic-Gulf	1,743	1,257	1,101	932	642	681	248	160	152
Region 04 Great Lakes	778	510	517	213	156	166	86	32	79
Region 05 Ohio	399	257	276	137	108	109	52	29	41
Region 06 Tennessee	147	109	93	65	50	46	16	9	7
Region 07 Upper Mississippi	818	515	604	293	195	233	70	37	58
Region 08 Lower Mississippi	1,411	1,002	1,191	1,002	759	841	434	257	366
Region 09 Souris-Red-Rainy	70	56	69	57	49	51	11	3	10
Region 10 Missouri	5,163	3,597	3,921	2,664	2,001	2,405	794	450	673
Region 11 Arkansas-White-Red	1,458	1,000	1,102	647	432	599	263	139	233
Region 12 Texas-Gulf	1,273	885	887	717	449	651	204	196	37
Region 13 Rio Grande	1,027	869	718	955	821	632	101	38	98
Region 14 Upper Colorado	1,202	1,118	1,080	1,013	950	912	158	142	121
Region 15 Lower Colorado	476	429	233	247	220	206	38	37	14
Region 16 Great Basin	529	425	381	307	216	295	195	169	74
Region 17 Pacific Northwest	4,442	3,781	3,051	1,795	1,348	1,471	408	171	310
Region 18 California	4,279	2,889	3,123	2,346	1,030	2,253	350	92	289
Region 19 Alaska	10	10	5	2	2	2	3	3	3
Region 20 Hawaii	129	102	85	81	73	52	17	17	14

See footnote(s) at end of table.

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Table 24. **Technical and Financial Assistance Received During the Past Five Years for Irrigation or Drainage Improvements: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Non-USDA Federal programs (Bureau of Reclamation, EPA, or other)			State programs (including CREP), local water management, or water supply districts			Private businesses (equipment dealers, bankers, lenders)		
	Farms	Farms receiving technical assistance	Farms receiving financial assistance	Farms	Farms receiving technical assistance	Farms receiving financial assistance	Farms	Farms receiving technical assistance	Farms receiving financial assistance
United States	2,242	850	1,686	4,414	2,487	3,383	12,645	9,094	5,881
Alabama	25	4	21	33	16	18	64	45	34
Alaska	-	-	-	-	-	-	5	5	-
Arizona	8	2	6	70	65	31	193	176	28
Arkansas	48	9	39	76	23	59	217	98	178
California	238	159	95	877	693	740	2,050	1,457	699
Colorado	32	32	16	128	123	29	648	614	95
Connecticut	-	-	-	-	-	-	28	28	-
Delaware	2	-	2	23	16	19	71	32	56
Florida	66	14	52	224	142	124	266	192	113
Georgia	87	9	78	118	24	106	234	141	125
Hawaii	-	-	-	31	18	13	32	22	10
Idaho	68	43	48	422	309	379	1,453	1,282	691
Illinois	23	6	17	29	6	23	133	90	75
Indiana	51	6	45	72	3	71	168	121	103
Iowa	14	3	14	23	7	16	87	56	46
Kansas	88	34	88	89	39	56	614	462	400
Kentucky	15	7	8	14	7	9	39	22	24
Louisiana	13	3	10	18	3	18	71	47	31
Maine	4	4	-	7	3	7	37	35	5
Maryland	-	-	-	10	7	5	64	35	32
Massachusetts	-	-	-	95	70	80	47	31	21
Michigan	56	6	52	82	39	48	388	288	176
Minnesota	46	14	43	35	2	34	147	111	62
Mississippi	26	14	14	36	26	18	131	69	84
Missouri	74	-	74	94	22	89	251	124	139
Montana	17	5	13	99	87	23	366	323	187
Nebraska	224	14	210	496	188	482	1,449	716	935
Nevada	14	3	11	13	9	4	52	32	25
New Hampshire	-	-	-	-	-	-	25	25	-
New Jersey	2	-	2	22	11	20	21	18	3
New Mexico	192	135	58	44	9	35	91	55	68
New York	62	4	62	23	11	19	95	83	22
North Carolina	25	14	11	36	36	23	134	123	16
North Dakota	11	11	5	14	8	11	43	20	28
Ohio	10	-	10	12	2	12	70	60	29
Oklahoma	11	3	8	13	-	13	114	74	49
Oregon	228	152	225	276	71	231	716	687	173
Pennsylvania	-	-	-	2	2	2	92	79	16
Rhode Island	12	11	12	-	-	-	12	12	-
South Carolina	25	-	25	25	1	24	54	27	35
South Dakota	39	11	28	64	27	44	136	76	97
Tennessee	20	-	20	55	9	46	67	49	35
Texas	182	56	126	247	81	234	764	396	557
Utah	23	14	15	122	93	67	152	51	123
Vermont	-	-	-	3	3	3	36	36	-
Virginia	9	2	7	4	4	-	41	31	10
Washington	122	40	91	98	81	38	300	230	106
West Virginia	3	3	-	3	3	-	12	9	3
Wisconsin	24	-	24	26	8	23	140	116	73
Wyoming	3	3	1	111	80	37	225	183	64
Water Resources Regions									
Region 01 New England	16	15	12	105	76	90	204	186	26
Region 02 Mid-Atlantic	12	4	12	76	49	59	308	210	131
Region 03 South Atlantic-Gulf	232	43	189	426	212	292	755	531	319
Region 04 Great Lakes	122	6	118	111	39	77	523	394	232
Region 05 Ohio	61	21	40	97	20	83	223	166	110
Region 06 Tennessee	7	-	7	41	15	26	82	69	33
Region 07 Upper Mississippi	113	15	109	96	16	86	459	321	244
Region 08 Lower Mississippi	126	26	102	190	72	152	475	232	306
Region 09 Souris-Red-Rainy	-	-	-	6	3	3	27	17	19
Region 10 Missouri	373	82	334	862	441	624	2,934	1,909	1,568
Region 11 Arkansas-White-Red	128	8	120	231	70	213	735	546	367
Region 12 Texas-Gulf	135	55	80	107	34	95	583	279	458
Region 13 Rio Grande	188	134	54	44	9	35	178	120	93
Region 14 Upper Colorado	30	26	24	123	85	70	113	25	100
Region 15 Lower Colorado	8	2	6	70	65	31	193	176	28
Region 16 Great Basin	31	15	20	76	51	56	119	75	73
Region 17 Pacific Northwest	419	239	361	839	513	638	2,635	2,345	1,059
Region 18 California	241	159	98	883	699	740	2,062	1,466	705
Region 19 Alaska	-	-	-	-	-	-	5	5	-
Region 20 Hawaii	-	-	-	31	18	13	32	22	10

[1] Respondents could choose more than one program.

Table 25. **Barriers to Making Improvements to Reduce Energy Use or Conserve Water: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total [1]				Investigating improvements not a priority		
	Farms	Land in farms (acres)	Acres irrigated	Acre-feet applied	Farms	Acres irrigated [2]	Acre-feet applied [2]
United States	128,115	106,750,320	29,305,842	46,506,688	50,242	7,653,357	11,211,006
Alabama	517	290,861	51,188	19,646	219	19,940	5,986
Alaska	59	1,444	211	102	29	147	66
Arizona	2,767	1,960,865	453,111	1,938,844	1,099	87,691	291,425
Arkansas	2,196	3,344,240	2,758,935	3,580,841	743	703,031	824,924
California	26,371	8,164,258	3,496,710	10,940,118	12,555	722,917	2,222,193
Colorado	7,525	6,248,689	1,346,966	2,426,385	2,175	292,331	448,744
Connecticut	347	14,049	2,467	2,761	154	500	325
Delaware	208	100,984	41,236	21,294	78	11,624	6,498
Florida	4,112	1,005,343	423,796	407,701	1,836	159,607	160,155
Georgia	1,634	1,539,028	576,497	293,389	673	172,448	94,490
Hawaii	1,007	184,874	61,647	216,719	539	3,873	7,657
Idaho	9,217	3,842,712	2,043,388	3,739,475	3,601	462,599	875,449
Illinois	812	630,590	204,349	137,566	380	70,368	51,038
Indiana	792	668,838	189,253	105,600	355	68,146	36,100
Iowa	586	415,645	102,558	55,479	294	30,752	15,716
Kansas	2,703	7,188,205	1,487,932	1,810,690	914	312,010	349,760
Kentucky	506	190,777	25,995	12,852	269	8,064	4,139
Louisiana	1,104	1,154,611	544,180	767,799	531	250,288	370,535
Maine	329	38,783	4,709	1,909	157	1,529	640
Maryland	530	164,849	54,864	27,756	232	16,736	8,038
Massachusetts	713	46,436	13,938	10,599	365	5,547	3,652
Michigan	1,922	814,233	283,751	149,535	801	60,225	31,564
Minnesota	1,104	838,010	230,398	141,839	457	65,366	37,589
Mississippi	957	1,523,153	920,936	964,797	435	522,337	587,699
Missouri	1,286	1,042,838	571,976	552,488	696	187,261	174,409
Montana	3,860	9,173,216	1,102,358	1,432,074	1,719	369,850	459,918
Nebraska	8,933	11,914,972	4,538,770	4,466,057	2,100	966,457	925,214
Nevada	1,533	2,689,102	405,861	1,080,880	471	73,145	199,432
New Hampshire	311	16,342	3,059	1,005	159	2,528	694
New Jersey	667	101,617	42,392	24,990	286	10,864	5,790
New Mexico	4,781	4,422,027	459,549	811,726	1,052	190,478	297,619
New York	963	123,555	18,879	9,062	390	7,308	4,852
North Carolina	1,167	333,548	65,992	22,660	476	14,940	3,991
North Dakota	257	708,780	103,351	63,695	113	44,528	28,948
Ohio	658	108,700	22,750	15,095	350	9,860	6,983
Oklahoma	945	1,253,961	193,216	235,541	354	36,281	42,964
Oregon	6,780	5,706,029	898,408	1,745,715	2,610	257,338	484,683
Pennsylvania	1,149	180,446	13,180	5,339	614	6,238	2,648
Rhode Island	217	5,822	2,271	1,609	47	1,692	1,136
South Carolina	425	252,109	54,301	27,423	174	13,233	5,514
South Dakota	610	1,178,186	148,079	119,949	239	51,883	42,129
Tennessee	485	330,438	76,694	37,466	235	24,355	8,694
Texas	8,105	12,113,141	2,609,367	3,239,319	2,488	590,190	727,190
Utah	6,097	2,968,854	663,156	1,379,677	1,976	137,417	283,677
Vermont	260	12,999	888	504	93	414	234
Virginia	654	168,400	23,466	11,084	315	4,923	3,321
Washington	5,694	2,906,553	857,025	1,926,101	2,783	240,333	568,680
West Virginia	129	14,938	671	449	65	526	348
Wisconsin	1,208	759,311	268,168	234,052	475	50,143	43,505
Wyoming	2,923	7,892,959	843,000	1,289,034	1,071	313,096	454,048
Water Resources Regions							
Region 01 New England	2,001	124,809	26,746	17,987	908	11,947	6,502
Region 02 Mid-Atlantic	3,465	693,937	182,248	94,223	1,633	53,220	27,962
Region 03 South Atlantic-Gulf	8,077	3,613,976	1,187,937	780,908	3,473	384,682	277,044
Region 04 Great Lakes	3,247	1,165,603	391,479	219,933	1,331	84,424	48,323
Region 05 Ohio	1,833	809,909	172,253	92,612	908	66,997	33,640
Region 06 Tennessee	455	159,933	20,770	9,943	233	4,925	1,924
Region 07 Upper Mississippi	3,384	2,320,084	702,865	515,550	1,527	200,943	140,547
Region 08 Lower Mississippi	4,134	6,030,329	4,250,736	5,151,880	1,656	1,471,623	1,732,794
Region 09 Souris-Red-Rainy	242	480,436	75,729	42,254	128	24,512	13,100
Region 10 Missouri	18,462	34,989,895	7,488,637	8,426,001	5,500	1,885,132	2,024,945
Region 11 Arkansas-White-Red	5,578	11,348,248	2,746,258	3,582,335	1,873	635,932	824,040
Region 12 Texas-Gulf	7,094	7,006,849	1,919,444	2,298,853	2,340	478,550	535,704
Region 13 Rio Grande	4,761	5,393,844	442,741	847,108	1,139	156,223	321,822
Region 14 Upper Colorado	6,519	4,021,123	793,793	1,572,717	1,899	187,789	299,911
Region 15 Lower Colorado	3,028	2,303,646	489,529	2,076,344	1,485	99,019	325,507
Region 16 Great Basin	5,913	4,591,859	949,353	2,137,750	1,448	184,228	424,373
Region 17 Pacific Northwest	22,088	13,032,279	3,786,501	7,273,553	9,617	971,437	1,893,625
Region 18 California	26,768	8,477,243	3,616,965	11,149,917	12,576	747,754	2,271,520
Region 19 Alaska	59	1,444	211	102	29	147	66
Region 20 Hawaii	1,007	184,874	61,647	216,719	539	3,873	7,657

See footnote(s) at end of table.

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Table 25. **Barriers to Making Improvements to Reduce Energy Use or Conserve Water: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Risk of reduced yield or poorer crop quality			Physical field/crop condition limit system improvements			Improvements will not reduce costs enough to cover installation costs		
	Farms	Acres irrigated [2]	Acre-feet applied [2]	Farms	Acres irrigated [2]	Acre-feet applied [2]	Farms	Acres irrigated [2]	Acre-feet applied [2]
United States	20,039	5,208,860	8,524,418	21,596	6,443,086	10,605,809	32,528	10,245,853	15,980,579
Alabama	80	7,215	2,982	65	10,302	3,377	140	11,329	4,502
Alaska	13	40	17	11	96	32	15	36	13
Arizona	269	67,194	269,253	436	90,073	440,460	560	124,760	572,066
Arkansas	285	383,750	457,513	452	631,712	873,250	560	827,785	1,060,615
California	6,475	705,154	2,168,315	4,403	712,772	2,493,094	5,171	987,386	3,066,300
Colorado	890	220,406	410,877	1,088	280,718	533,702	2,420	422,655	839,262
Connecticut	42	784	701	41	804	1,089	71	804	1,206
Delaware	42	13,600	7,157	41	13,424	5,977	88	20,921	12,231
Florida	594	67,853	69,055	556	68,535	66,960	818	116,334	119,355
Georgia	273	82,310	47,100	387	133,700	66,326	402	222,136	105,537
Hawaii	158	(D)	(D)	113	6,677	16,849	243	(D)	(D)
Idaho	535	290,789	527,153	1,204	559,598	1,092,255	2,321	842,703	1,608,301
Illinois	127	37,486	34,595	119	39,781	24,444	193	71,181	49,911
Indiana	144	36,705	22,322	150	49,364	25,347	179	64,718	35,305
Iowa	77	13,412	5,693	76	20,351	12,367	168	38,641	(D)
Kansas	750	401,583	510,070	441	255,846	313,194	1,076	556,158	644,975
Kentucky	43	456	290	68	3,630	2,437	124	5,349	2,727
Louisiana	159	80,627	88,715	174	100,867	126,269	284	150,768	193,150
Maine	5	210	140	31	369	142	71	1,782	1,006
Maryland	65	12,885	6,966	95	12,493	4,810	146	23,278	10,331
Massachusetts	75	1,289	1,965	73	6,051	2,221	107	7,423	4,405
Michigan	364	76,505	48,687	280	66,344	31,191	461	97,768	50,402
Minnesota	205	44,650	26,590	241	47,426	32,472	285	72,781	47,005
Mississippi	161	185,066	177,210	205	224,925	216,917	268	290,872	291,591
Missouri	252	107,157	97,611	283	152,121	143,127	335	207,936	192,239
Montana	280	146,265	196,124	926	276,505	362,327	1,241	431,619	531,513
Nebraska	901	667,703	704,692	1,447	994,547	936,400	2,811	1,845,020	1,916,242
Nevada	421	93,562	264,496	179	108,556	302,537	310	117,055	318,675
New Hampshire	40	1,864	506	37	1,863	495	80	598	116
New Jersey	68	6,002	5,944	88	7,878	4,819	137	16,491	11,636
New Mexico	913	91,450	154,545	618	60,388	106,350	1,133	71,648	161,971
New York	96	1,890	1,126	133	5,444	1,927	185	6,074	2,221
North Carolina	174	7,511	3,224	174	16,580	5,285	264	21,402	9,085
North Dakota	29	15,953	9,266	61	26,989	16,549	112	41,778	25,010
Ohio	117	2,762	1,532	75	5,168	3,417	126	4,021	1,937
Oklahoma	212	43,821	58,667	191	37,434	45,664	261	73,974	95,612
Oregon	474	113,782	201,728	1,160	208,042	409,121	1,851	362,511	736,387
Pennsylvania	173	3,145	1,406	182	2,908	1,332	245	(D)	1,769
Rhode Island	21	726	637	25	36	31	56	113	68
South Carolina	53	(D)	1,802	51	6,755	2,979	170	18,190	7,938
South Dakota	83	23,685	(D)	125	23,662	26,889	86	39,925	38,510
Tennessee	96	20,515	8,174	89	22,614	8,329	102	34,484	21,661
Texas	1,763	651,266	931,655	2,048	548,310	684,665	2,154	909,894	1,133,898
Utah	956	68,094	132,554	1,045	150,710	295,993	1,865	230,836	489,343
Vermont	18	34	18	60	103	83	48	214	168
Virginia	76	1,127	942	100	9,151	3,346	178	9,070	4,701
Washington	431	173,534	422,170	877	193,776	464,425	1,558	428,357	930,513
West Virginia	14	127	57	9	117	53	7	115	60
Wisconsin	228	77,165	72,059	203	48,084	41,305	326	107,531	82,339
Wyoming	319	115,699	179,608	660	199,487	353,177	716	265,830	354,539
Water Resources Regions									
Region 01 New England	191	4,881	3,951	235	9,169	4,005	400	10,735	6,817
Region 02 Mid-Atlantic	434	37,046	(D)	539	45,898	20,655	822	75,394	41,436
Region 03 South Atlantic-Gulf	1,173	172,024	124,674	1,250	238,383	145,857	1,854	396,616	248,370
Region 04 Great Lakes	526	95,483	60,745	471	87,316	43,977	730	143,737	75,816
Region 05 Ohio	307	27,884	16,674	258	46,346	25,727	397	48,524	(D)
Region 06 Tennessee	71	2,968	2,492	76	7,597	4,117	88	(D)	1,977
Region 07 Upper Mississippi	592	162,639	132,806	549	136,341	98,516	861	250,342	181,724
Region 08 Lower Mississippi	623	662,526	711,765	898	986,581	1,188,122	1,143	1,286,698	1,470,847
Region 09 Souris-Red-Rainy	45	(D)	4,099	72	20,314	11,106	78	20,316	10,959
Region 10 Missouri	1,745	1,086,610	1,300,766	3,363	1,614,992	1,898,868	5,747	2,920,338	3,315,381
Region 11 Arkansas-White-Red	1,544	721,181	940,901	901	485,745	653,642	1,926	972,960	1,266,831
Region 12 Texas-Gulf	1,525	473,722	640,635	1,922	468,906	554,830	1,787	647,072	782,499
Region 13 Rio Grande	1,057	106,263	249,574	903	94,742	150,217	1,449	124,032	246,581
Region 14 Upper Colorado	689	98,354	160,699	700	159,911	299,701	1,567	204,480	422,435
Region 15 Lower Colorado	379	86,958	357,691	493	109,201	528,580	729	146,757	669,166
Region 16 Great Basin	920	138,416	358,074	831	253,345	568,606	1,717	318,602	731,025
Region 17 Pacific Northwest	1,548	569,232	1,103,996	3,580	950,982	1,917,170	5,707	1,628,310	3,253,323
Region 18 California	6,499	716,030	2,162,302	4,431	720,544	2,475,232	5,268	1,005,745	3,055,240
Region 19 Alaska	13	40	17	11	96	32	15	36	13
Region 20 Hawaii	158	(D)	(D)	113	6,677	16,849	243	(D)	(D)

See footnote(s) at end of table.

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Table 25. **Barriers to Making Improvements to Reduce Energy Use or Conserve Water: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Cannot finance improvements			Landlord will not share in cost			Uncertainty about future availability of water		
	Farms	Acres irrigated [2]	Acre-feet applied [2]	Farms	Acres irrigated [2]	Acre-feet applied [2]	Farms	Acres irrigated [2]	Acre-feet applied [2]
United States	40,468	7,625,049	12,468,356	12,608	7,315,678	11,894,326	30,895	8,533,047	14,583,080
Alabama	181	13,144	5,699	34	7,367	2,878	39	6,478	1,928
Alaska	29	137	50	8	20	12	6	12	4
Arizona	1,209	121,436	519,277	297	192,388	919,114	598	114,054	443,406
Arkansas	706	765,831	976,565	700	1,209,053	1,717,621	248	483,347	637,376
California	9,198	978,336	2,920,874	1,799	755,213	2,481,137	8,061	1,544,705	4,870,478
Colorado	2,451	348,695	686,213	498	215,981	383,706	3,283	585,774	990,112
Connecticut	158	1,377	1,828	40	271	144	27	685	1,077
Delaware	66	5,568	3,162	35	11,716	5,770	20	3,098	1,266
Florida	1,415	120,468	115,819	224	33,799	33,393	412	42,469	39,878
Georgia	584	159,867	89,977	267	166,166	99,075	216	104,724	59,239
Hawaii	319	11,870	23,948	108	2,656	2,630	133	46,312	(D)
Idaho	2,760	560,927	1,050,130	646	502,538	958,144	1,515	529,637	891,488
Illinois	179	28,715	23,979	92	64,201	44,221	34	9,611	5,855
Indiana	127	32,649	19,753	95	50,418	28,130	43	9,194	4,759
Iowa	144	17,705	10,068	51	31,953	16,884	33	6,748	3,441
Kansas	508	215,147	243,079	581	385,318	460,830	1,114	699,355	839,447
Kentucky	127	958	463	29	3,488	2,273	30	3,041	2,192
Louisiana	300	98,686	141,818	194	116,574	145,506	62	30,112	28,909
Maine	111	905	322	11	178	95	13	839	200
Maryland	217	11,850	7,348	33	7,167	4,854	45	8,917	5,739
Massachusetts	249	5,563	4,120	76	454	568	84	494	1,715
Michigan	460	42,347	19,509	145	53,810	24,678	170	42,594	23,784
Minnesota	358	62,962	41,082	126	36,797	22,861	110	24,017	14,323
Mississippi	311	286,913	274,576	226	331,689	313,116	121	146,613	141,591
Missouri	373	154,215	140,085	172	174,709	173,761	97	25,239	21,226
Montana	1,244	329,356	415,148	349	189,560	256,930	968	304,706	354,106
Nebraska	1,781	987,351	963,548	1,718	1,225,679	1,251,177	1,766	1,112,946	1,059,548
Nevada	413	138,897	398,352	173	57,731	168,832	854	158,547	437,625
New Hampshire	84	308	200	19	212	64	17	70	17
New Jersey	265	19,109	12,769	70	6,514	1,997	43	2,768	2,667
New Mexico	1,334	104,405	224,011	187	59,415	115,414	2,467	159,217	247,204
New York	370	3,619	1,348	28	936	246	36	2,596	816
North Carolina	382	22,841	10,031	100	16,565	4,087	85	12,720	2,533
North Dakota	64	23,776	12,953	42	30,700	21,224	38	16,429	(D)
Ohio	227	4,306	2,718	50	5,138	2,100	44	2,368	1,213
Oklahoma	287	50,980	57,793	112	52,935	61,644	196	49,330	59,950
Oregon	2,366	297,210	563,396	422	180,923	360,342	807	247,718	500,833
Pennsylvania	401	4,608	2,059	100	1,991	1,233	94	1,011	628
Rhode Island	90	254	253	22	44	25	-	-	-
South Carolina	185	17,748	9,959	57	10,394	4,968	36	6,673	2,450
South Dakota	106	28,166	29,897	40	16,267	13,061	53	21,567	16,916
Tennessee	162	18,543	8,069	44	35,299	22,929	43	11,962	5,326
Texas	2,664	714,552	881,917	999	601,058	853,040	3,504	1,386,799	1,642,155
Utah	2,015	272,415	593,577	602	105,029	213,739	1,768	151,101	285,915
Vermont	90	257	175	30	151	130	22	47	22
Virginia	246	5,039	2,254	53	6,274	1,900	49	2,147	948
Washington	1,788	267,275	579,384	619	205,593	446,307	921	136,085	325,245
West Virginia	48	232	121	4	112	51	4	112	51
Wisconsin	433	65,545	45,493	96	54,828	43,244	95	39,024	32,400
Wyoming	883	201,986	333,187	185	98,406	208,238	471	239,035	374,885
Water Resources Regions									
Region 01 New England	729	8,447	6,740	176	1,167	898	149	2,096	3,011
Region 02 Mid-Atlantic	1,246	47,453	28,012	276	32,065	15,410	233	19,307	11,804
Region 03 South Atlantic-Gulf	2,783	336,230	232,314	684	235,490	145,035	790	172,460	105,633
Region 04 Great Lakes	945	75,825	41,681	240	82,193	45,965	223	47,377	27,451
Region 05 Ohio	529	20,868	13,246	153	45,604	23,351	147	14,284	(D)
Region 06 Tennessee	173	3,855	1,831	27	4,735	1,600	36	3,863	2,926
Region 07 Upper Mississippi	963	148,480	102,654	311	152,115	105,419	272	73,957	53,185
Region 08 Lower Mississippi	1,312	1,132,902	1,331,250	1,177	1,674,274	2,123,137	423	625,825	736,030
Region 09 Souris-Red-Rainy	82	16,194	8,432	55	18,292	9,271	45	8,146	3,410
Region 10 Missouri	4,243	1,660,210	1,909,154	2,561	1,753,432	2,026,552	4,337	1,966,077	2,179,087
Region 11 Arkansas-White-Red	1,800	655,204	826,556	730	682,045	912,498	2,053	1,109,687	1,461,009
Region 12 Texas-Gulf	2,379	505,967	601,752	870	471,304	656,204	2,972	1,060,631	1,209,768
Region 13 Rio Grande	1,508	133,255	276,859	200	56,263	103,457	2,823	216,043	379,661
Region 14 Upper Colorado	2,043	246,294	551,170	547	92,297	171,169	2,027	246,364	412,409
Region 15 Lower Colorado	1,166	127,832	539,347	380	195,427	929,550	554	135,580	539,924
Region 16 Great Basin	1,978	371,904	825,744	473	153,573	363,427	2,414	288,902	663,510
Region 17 Pacific Northwest	6,995	1,094,829	2,121,786	1,808	874,406	1,704,365	3,006	876,595	1,629,907
Region 18 California	9,246	1,027,293	3,025,830	1,824	788,320	2,554,377	8,252	1,619,529	4,964,976
Region 19 Alaska	29	137	50	8	20	12	6	12	4
Region 20 Hawaii	319	11,870	23,948	108	2,656	2,630	133	46,312	(D)

See footnote(s) at end of table.

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Table 25. **Barriers to Making Improvements to Reduce Energy Use or Conserve Water: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Will not be farming this operation long enough to justify improvements			Improvements will increase management time or cost		
	Farms	Acres irrigated [2]	Acre-feet applied [2]	Farms	Acres irrigated [2]	Acre-feet applied [2]
United States	19,055	3,453,058	5,616,806	16,104	4,007,624	6,286,799
Alabama	112	3,809	1,594	78	8,699	3,752
Alaska	20	32	20	18	44	16
Arizona	243	97,354	520,142	142	32,353	140,262
Arkansas	424	392,667	480,230	331	399,998	499,391
California	4,600	388,434	1,301,937	3,740	525,293	1,643,708
Colorado	585	138,496	280,527	1,038	164,807	362,675
Connecticut	64	893	1,164	41	129	70
Delaware	25	5,480	1,990	25	6,918	4,388
Florida	797	81,191	75,233	598	54,993	57,494
Georgia	179	85,399	44,882	211	109,638	56,211
Hawaii	177	1,173	2,541	176	1,990	2,429
Idaho	1,440	247,164	431,486	734	135,740	237,098
Illinois	121	27,588	18,094	125	34,841	27,939
Indiana	121	20,759	11,288	138	21,470	11,230
Iowa	87	16,399	8,948	48	8,875	3,969
Kansas	323	132,824	158,263	335	210,911	262,825
Kentucky	97	9,312	4,076	74	3,942	1,860
Louisiana	173	20,840	28,369	164	67,979	99,424
Maine	37	95	104	30	243	174
Maryland	86	4,443	1,940	46	6,489	3,924
Massachusetts	196	865	2,144	71	1,850	719
Michigan	388	32,982	15,915	219	44,784	23,191
Minnesota	196	39,377	26,415	106	23,774	18,305
Mississippi	162	149,920	147,247	148	172,036	164,831
Missouri	135	65,574	61,287	133	55,765	42,580
Montana	280	87,209	103,931	388	118,064	120,708
Nebraska	1,130	559,649	579,781	1,295	728,744	786,747
Nevada	356	40,327	116,631	167	51,403	133,356
New Hampshire	42	95	50	40	1,863	499
New Jersey	122	2,415	1,332	103	7,700	4,339
New Mexico	365	55,310	88,924	1,037	90,447	218,978
New York	170	1,114	477	113	2,348	757
North Carolina	215	2,533	786	142	10,322	5,134
North Dakota	34	14,385	8,085	37	21,548	11,234
Ohio	80	1,018	348	111	2,484	2,762
Oklahoma	122	11,596	11,846	150	34,026	45,569
Oregon	960	79,041	152,914	518	131,284	207,607
Pennsylvania	216	1,418	996	167	2,532	1,068
Rhode Island	26	85	56	47	80	68
South Carolina	85	8,096	4,774	72	1,995	1,217
South Dakota	58	17,450	13,325	110	30,241	22,221
Tennessee	67	21,856	8,656	79	18,938	7,543
Texas	1,036	295,107	368,525	839	348,483	421,065
Utah	1,011	68,000	129,993	662	66,399	124,996
Vermont	67	231	207	41	272	94
Virginia	170	3,039	2,046	90	1,700	1,881
Washington	1,162	123,077	256,206	699	131,761	309,053
West Virginia	25	169	88	21	291	157
Wisconsin	212	13,540	6,670	192	30,086	41,167
Wyoming	256	83,228	134,319	215	81,052	150,115
Water Resources Regions						
Region 01 New England	381	2,049	3,523	250	4,276	1,563
Region 02 Mid-Atlantic	655	17,417	8,558	441	26,500	15,651
Region 03 South Atlantic-Gulf	1,437	180,208	127,094	1,096	183,967	123,216
Region 04 Great Lakes	582	39,762	18,746	420	60,373	36,054
Region 05 Ohio	322	25,762	12,808	319	21,313	10,894
Region 06 Tennessee	89	1,844	734	58	3,430	2,053
Region 07 Upper Mississippi	519	90,089	57,981	371	87,424	81,765
Region 08 Lower Mississippi	730	543,655	612,008	661	646,853	743,686
Region 09 Souris-Red-Rainy	49	9,540	4,777	78	17,339	10,139
Region 10 Missouri	1,919	820,923	904,324	1,934	1,021,266	1,182,581
Region 11 Arkansas-White-Red	691	309,092	378,038	763	436,559	571,442
Region 12 Texas-Gulf	827	201,966	255,660	619	205,325	227,747
Region 13 Rio Grande	381	68,796	87,624	1,194	55,390	98,781
Region 14 Upper Colorado	502	90,356	210,873	949	158,250	381,813
Region 15 Lower Colorado	484	102,761	536,764	224	35,367	151,036
Region 16 Great Basin	1,287	110,536	242,760	522	87,966	210,003
Region 17 Pacific Northwest	3,233	437,330	828,763	2,250	412,387	763,987
Region 18 California	4,770	399,767	1,323,211	3,761	541,605	1,671,943
Region 19 Alaska	20	32	20	18	44	16
Region 20 Hawaii	177	1,173	2,541	176	1,990	2,429

[1] Data include only positive responses and respondents could choose more than one source of information.
[2] Acres irrigated and acre-feet applied are totals for all irrigation on these farms.

Table 26. **Sources of Irrigation Information Relied on for Reducing Irrigation Costs and Conserving Water: 2013**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total [1]		Extension agents or university specialists		Private irrigation specialists or consultants		Irrigation equipment dealers		Irrigation district or water supplier	
	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]
United States	149,214	41,781,901	60,559	20,158,783	38,716	19,617,414	42,214	17,159,205	26,672	6,503,523
Alabama	571	80,159	305	39,327	95	29,561	179	40,161	14	164
Alaska	81	300	27	132	7	22	15	79	5	5
Arizona	2,395	559,326	1,084	327,355	372	209,430	331	121,091	661	111,320
Arkansas	3,311	4,199,032	2,163	3,017,989	993	1,626,933	635	970,910	167	266,410
California	28,739	5,346,785	11,175	2,696,417	10,740	2,919,040	5,958	1,902,447	6,907	1,644,914
Colorado	8,286	1,684,726	1,902	549,203	1,131	613,722	1,263	532,486	2,202	333,120
Connecticut	338	2,851	163	1,891	46	1,117	132	1,645	-	-
Delaware	291	95,102	194	60,721	102	44,036	137	51,667	7	5,490
Florida	5,080	773,517	2,504	487,660	1,089	239,872	1,385	232,265	478	208,470
Georgia	2,387	976,400	1,737	729,924	533	330,193	753	449,254	64	38,244
Hawaii	844	67,712	318	53,722	98	18,181	243	51,521	61	2,623
Idaho	9,709	2,624,686	2,605	973,302	1,740	1,180,274	3,288	1,524,037	2,377	497,689
Illinois	1,103	397,028	320	125,469	225	98,152	702	297,458	28	8,024
Indiana	1,158	366,857	539	173,840	304	142,123	629	243,511	8	8,250
Iowa	651	137,270	258	49,218	119	34,822	363	89,813	7	(D)
Kansas	4,336	2,341,247	1,514	706,163	3,100	1,905,317	1,300	832,605	557	256,902
Kentucky	630	33,808	377	22,014	60	14,499	149	21,470	17	8,804
Louisiana	1,449	813,786	723	413,569	289	211,389	454	346,785	44	25,319
Maine	384	18,909	252	5,638	111	3,272	132	15,491	11	254
Maryland	619	84,376	355	41,337	123	29,780	285	50,465	11	1,464
Massachusetts	797	18,060	466	13,813	97	2,620	226	11,361	23	(D)
Michigan	2,498	448,877	1,324	232,111	405	136,766	1,246	338,714	29	8,444
Minnesota	1,497	417,026	727	232,235	479	168,066	808	263,026	66	27,535
Mississippi	1,441	1,509,393	815	843,220	477	721,946	534	705,720	39	54,971
Missouri	1,459	908,113	625	433,303	329	302,491	590	408,044	36	36,435
Montana	4,272	1,240,673	1,718	484,303	511	279,655	1,125	578,124	1,101	257,263
Nebraska	11,228	6,595,454	5,333	3,164,187	5,600	4,218,523	4,122	2,438,183	1,422	874,496
Nevada	1,209	412,062	315	178,691	253	155,643	178	171,570	318	100,287
New Hampshire	321	3,641	243	3,234	61	937	132	3,074	8	360
New Jersey	810	64,029	486	37,392	95	18,304	301	30,998	9	787
New Mexico	5,785	556,339	1,820	224,601	568	169,495	266	143,882	1,524	84,211
New York	1,055	30,089	701	22,225	129	4,768	311	11,948	8	760
North Carolina	1,698	104,495	1,004	57,129	294	35,569	601	63,825	17	4,112
North Dakota	392	155,068	219	88,556	133	73,980	156	70,571	26	11,795
Ohio	751	36,305	361	18,613	103	8,242	298	28,512	5	15
Oklahoma	1,144	277,097	551	91,366	349	155,926	365	118,538	28	11,217
Oregon	8,010	1,112,830	2,800	454,841	1,730	428,455	2,696	486,708	2,521	206,400
Pennsylvania	1,358	15,671	608	7,647	214	5,655	637	9,986	20	684
Rhode Island	207	1,480	61	807	15	15	51	384	12	(D)
South Carolina	700	87,182	431	62,290	134	21,894	236	49,151	21	5,033
South Dakota	802	242,847	198	75,898	164	89,074	364	137,474	95	20,127
Tennessee	620	123,153	386	75,898	137	51,634	205	57,880	32	10,027
Texas	9,487	3,381,979	3,916	1,535,275	2,438	1,762,346	3,737	1,624,261	1,346	679,923
Utah	7,103	741,274	2,515	318,219	536	120,427	1,152	251,676	1,931	149,361
Vermont	265	1,734	149	1,038	39	260	95	970	2	(D)
Virginia	874	40,648	460	20,170	75	11,153	300	24,703	9	(D)
Washington	5,857	1,160,408	1,928	421,768	1,216	623,463	1,810	745,533	1,304	209,353
West Virginia	142	752	74	540	22	214	55	493	3	42
Wisconsin	1,420	408,175	691	203,307	364	171,007	709	346,452	18	5,146
Wyoming	3,650	1,083,170	1,119	381,215	472	227,151	575	262,283	1,073	323,751
Water Resources Regions										
Region 01 New England	2,145	45,204	1,217	25,508	374	8,077	695	32,070	54	1,292
Region 02 Mid-Atlantic	4,241	313,716	2,327	179,441	617	107,946	1,740	171,135	62	11,190
Region 03 South Atlantic-Gulf	10,660	2,025,470	6,040	1,374,581	2,203	662,371	3,261	837,815	605	258,091
Region 04 Great Lakes	3,990	635,990	2,242	327,017	667	224,379	1,868	492,232	42	9,252
Region 05 Ohio	2,300	270,677	1,149	112,318	412	96,364	897	183,573	48	17,196
Region 06 Tennessee	653	48,888	438	30,809	85	20,083	165	23,738	17	722
Region 07 Upper Mississippi	4,191	1,249,963	1,778	581,376	1,084	433,306	2,383	915,216	93	35,544
Region 08 Lower Mississippi	5,867	6,577,586	3,401	4,084,504	1,782	2,541,501	1,619	2,190,517	255	339,720
Region 09 Souris-Red-Rainy	311	127,538	158	77,196	109	65,144	124	57,677	15	10,162
Region 10 Missouri	23,028	10,424,204	9,435	4,533,486	8,359	5,723,235	7,605	4,115,617	3,594	1,515,892
Region 11 Arkansas-White-Red	8,065	4,238,475	2,760	1,716,362	3,647	2,839,261	2,016	1,347,586	1,166	538,109
Region 12 Texas-Gulf	7,564	2,240,547	3,135	1,086,774	1,592	904,687	3,180	1,142,780	933	457,922
Region 13 Rio Grande	5,663	583,940	1,990	260,288	701	267,427	295	180,148	1,651	114,413
Region 14 Upper Colorado	7,166	922,824	1,798	320,500	316	78,756	737	188,046	1,893	228,698
Region 15 Lower Colorado	2,649	600,412	993	347,057	384	225,965	458	145,410	854	114,412
Region 16 Great Basin	6,243	1,036,018	2,585	448,801	702	290,402	1,028	387,477	1,568	214,923
Region 17 Pacific Northwest	24,398	4,935,244	7,509	1,872,606	4,789	2,175,389	7,787	2,748,433	6,626	966,929
Region 18 California	29,155	5,437,193	11,259	2,726,305	10,788	2,934,918	6,098	1,948,135	7,130	1,666,428
Region 19 Alaska	81	300	27	132	7	22	15	79	5	5
Region 20 Hawaii	844	67,712	318	53,722	98	18,181	243	51,521	61	2,623

See footnote(s) at end of table.

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Table 26. **Sources of Irrigation Information Relied on for Reducing Irrigation Costs and Conserving Water: 2013** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	NRCS, local Conservation district, other Federal or State agencies		Media reports or information in the press		Neighboring farmers		Electronic information services (DTN and other Internet links)	
	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]	Farms	Acres irrigated [2]
United States	27,388	10,781,136	21,945	6,463,374	56,044	14,217,927	30,169	10,617,540
Alabama	67	7,710	119	12,376	133	15,738	129	19,670
Alaska	20	34	14	186	29	60	18	105
Arizona	615	192,600	449	50,599	969	184,472	374	125,124
Arkansas	755	1,175,042	367	410,472	1,007	1,327,541	576	871,953
California	4,850	1,283,390	6,076	1,131,951	11,533	2,026,356	7,423	1,523,555
Colorado	2,380	549,439	706	203,530	3,520	523,435	1,410	460,003
Connecticut	59	216	43	1,237	104	1,069	40	222
Delaware	57	7,629	21	8,674	91	23,318	62	16,707
Florida	778	205,245	765	54,394	1,318	158,812	983	235,744
Georgia	363	172,143	214	131,157	547	257,271	356	131,607
Hawaii	133	54,663	138	744	304	4,117	146	(D)
Idaho	1,259	605,449	604	404,965	4,531	1,045,028	632	597,463
Illinois	73	22,973	189	68,822	306	125,502	349	127,592
Indiana	100	60,879	235	70,407	390	135,445	333	109,798
Iowa	36	6,409	105	18,812	233	62,146	158	44,609
Kansas	541	263,200	629	326,701	1,062	625,121	895	520,584
Kentucky	63	11,332	60	12,978	167	16,642	106	15,307
Louisiana	237	185,940	128	54,279	437	228,618	181	107,171
Maine	80	13,625	46	735	55	2,792	93	686
Maryland	65	14,610	76	11,256	201	28,857	92	22,205
Massachusetts	157	7,422	144	3,250	202	6,699	214	3,357
Michigan	347	69,984	366	59,372	709	161,506	698	164,108
Minnesota	221	78,997	206	59,328	440	129,434	387	126,511
Mississippi	239	388,689	154	135,083	443	367,689	283	201,074
Missouri	302	334,785	185	111,964	560	353,937	337	205,707
Montana	1,382	442,397	527	228,147	1,850	638,321	460	216,441
Nebraska	2,668	1,775,265	1,910	1,259,643	2,746	1,704,707	2,982	2,203,289
Nevada	368	141,939	234	61,873	694	212,333	175	93,266
New Hampshire	62	2,373	70	2,343	151	2,566	54	2,126
New Jersey	145	17,720	130	7,246	222	14,274	105	10,904
New Mexico	989	130,597	729	111,099	3,159	145,461	830	62,248
New York	97	5,752	159	4,869	302	8,140	248	6,845
North Carolina	196	19,443	300	20,278	414	23,659	371	26,941
North Dakota	77	33,907	44	17,741	99	37,087	117	58,515
Ohio	41	1,552	149	4,434	188	7,651	197	11,762
Oklahoma	220	53,026	149	45,544	352	77,856	225	69,924
Oregon	1,461	293,851	1,289	178,451	3,179	505,336	1,557	280,502
Pennsylvania	86	1,679	184	1,497	499	4,011	209	(D)
Rhode Island	47	341	24	24	67	265	24	184
South Carolina	69	15,660	113	15,102	156	28,542	145	22,804
South Dakota	74	30,153	138	42,135	305	96,383	231	60,299
Tennessee	70	28,029	75	13,609	185	36,285	164	20,286
Texas	2,162	1,040,236	1,268	622,132	3,932	1,465,679	2,093	860,840
Utah	1,391	277,706	519	108,929	3,948	395,412	1,063	152,636
Vermont	61	237	13	51	101	779	53	206
Virginia	80	9,148	142	6,388	165	13,733	204	12,382
Washington	804	292,781	1,196	174,266	1,555	357,322	1,695	420,321
West Virginia	16	223	24	74	27	123	47	171
Wisconsin	129	41,531	244	55,712	517	135,142	403	172,739
Wyoming	896	413,185	276	138,515	1,940	495,255	242	175,799
Water Resources Regions								
Region 01 New England	426	24,001	327	7,589	605	13,564	439	6,661
Region 02 Mid-Atlantic	457	53,465	630	37,844	1,273	89,032	809	68,599
Region 03 South Atlantic-Gulf	1,513	422,055	1,493	235,531	2,692	487,441	2,104	442,854
Region 04 Great Lakes	529	102,908	586	77,721	1,192	223,482	1,063	222,578
Region 05 Ohio	161	36,389	379	55,382	599	89,282	564	88,284
Region 06 Tennessee	63	3,331	95	4,028	165	12,500	144	(D)
Region 07 Upper Mississippi	395	147,535	630	204,357	1,399	432,293	1,159	435,839
Region 08 Lower Mississippi	1,263	1,854,310	680	592,569	1,897	2,035,149	930	1,177,191
Region 09 Souris-Red-Rainy	61	36,578	54	13,530	63	23,385	107	49,973
Region 10 Missouri	5,198	2,781,055	3,648	1,842,761	7,842	3,156,467	5,234	3,046,312
Region 11 Arkansas-White-Red	1,395	871,806	900	691,002	2,450	1,288,816	1,650	1,095,263
Region 12 Texas-Gulf	1,700	717,322	1,013	346,586	3,068	947,917	1,384	485,891
Region 13 Rio Grande	1,117	189,667	689	93,672	3,018	260,750	1,156	143,696
Region 14 Upper Colorado	2,535	398,096	530	134,188	3,589	387,761	797	135,683
Region 15 Lower Colorado	559	194,565	331	51,961	1,040	201,798	428	146,868
Region 16 Great Basin	1,045	343,747	598	152,807	3,404	521,816	733	214,439
Region 17 Pacific Northwest	3,834	1,242,314	3,058	761,597	9,754	1,967,889	3,860	1,286,773
Region 18 California	4,984	1,307,295	6,152	1,159,319	11,661	2,074,408	7,444	1,522,680
Region 19 Alaska	20	34	14	186	29	60	18	105
Region 20 Hawaii	133	54,663	138	744	304	4,117	146	(D)

[1] Data include only positive responses and respondents could choose more than one source of information.
[2] Acres irrigated are totals for all irrigation on these farms.

Table 27. **Discontinuance of All Irrigation by Reason: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Discontinued irrigation since previous census year					Reason for discontinuance [1]					
					Farms reporting discontinuance to be permanent		Sufficient soil moisture		Shortage of surface water		Shortage of ground water	
		Farms	Acres irrigated in previous census year [2]	Square feet under protection in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]
United States	2013	41,455	2,519,094	11,759,756	3,711	125,540	9,559	504,584	2,903	318,768	1,284	157,862
	2008	23,255	1,318,275	1,132,318	2,299	72,555	3,892	252,601	943	48,188	690	12,360
2013 DATA												
Alabama		519	21,332	11,200	56	869	199	15,267	11	94	8	88
Alaska		36	475	216,252	9	26	13	30	-	-	-	-
Arizona		419	23,911	-	-	-	14	3,840	47	868	-	-
Arkansas		388	76,984	2,100	-	-	167	21,614	-	-	4	80
California		3,874	298,099	48,000	450	13,111	127	20,652	661	106,583	576	97,319
Colorado		2,302	180,931	39,234	249	5,667	387	17,882	507	68,824	248	9,466
Connecticut		243	2,118	286,495	15	15	67	1,327	-	-	-	-
Delaware		102	14,255	-	6	1,640	46	6,838	-	-	-	-
Florida		2,334	89,498	387,360	407	13,076	376	32,956	35	1,155	7	560
Georgia		1,300	109,140	139,006	92	5,301	487	45,703	7	21	3	3,030
Hawaii		453	3,352	113,197	35	105	144	723	23	100	2	(D)
Idaho		1,254	67,641	-	8	80	248	2,480	8	24	-	-
Illinois		607	44,039	242,940	108	2,370	162	16,662	17	257	7	565
Indiana		574	25,946	616,135	100	1,902	166	11,384	12	48	-	-
Iowa		320	19,925	269,744	38	1,154	61	5,504	2	(D)	8	532
Kansas		509	63,058	23,904	125	16,954	63	2,224	-	-	56	1,400
Kentucky		1,225	26,346	883,005	101	1,012	646	16,714	19	113	-	-
Louisiana		590	48,350	78,216	70	3,015	261	9,116	-	-	17	816
Maine		282	3,835	142,782	46	73	75	2,554	-	-	-	-
Maryland		295	9,721	197,112	12	(D)	148	5,653	-	-	-	-
Massachusetts		201	1,531	2,856	61	89	40	664	-	-	-	-
Michigan		971	19,890	687,933	69	2,953	261	9,551	-	-	-	-
Minnesota		393	27,350	148,440	46	2,041	56	7,747	5	5	2	(D)
Mississippi		460	74,568	144,000	25	4,607	169	13,535	4	1,600	4	1,600
Missouri		755	86,303	288,248	112	5,758	171	33,829	5	5	6	2,392
Montana		1,452	152,970	39,180	92	2,648	52	16,981	85	14,609	83	83
Nebraska		580	164,535	1,248	8	8	15	(D)	147	11,907	-	-
Nevada		248	29,369	-	-	-	-	-	42	20,166	6	1,200
New Hampshire		100	457	3,840	4	13	31	93	-	-	-	-
New Jersey		430	12,139	79,195	59	110	215	7,256	5	10	1	(D)
New Mexico		1,549	52,056	-	192	4,245	369	13,540	574	18,190	59	3,340
New York		1,177	14,273	751,875	80	738	483	7,063	48	156	6	6
North Carolina		1,151	42,250	885,301	52	1,282	575	24,259	6	6	-	-
North Dakota		132	18,362	-	10	1,250	46	3,843	5	710	-	-
Ohio		835	16,514	1,403,217	117	535	331	10,542	5	5	7	33
Oklahoma		579	30,429	-	49	1,192	262	7,941	11	2,150	41	4,921
Oregon		1,213	86,528	159,524	140	3,287	202	3,886	18	15,049	2	(D)
Pennsylvania		1,014	11,851	1,158,335	115	(D)	353	7,556	37	62	-	-
Rhode Island		15	204	-	-	-	6	147	-	-	-	-
South Carolina		668	40,000	6,300	76	323	281	31,431	51	114	-	-
South Dakota		156	12,463	-	1	(D)	55	(D)	26	1,170	-	-
Tennessee		650	20,261	299,973	72	374	306	5,086	3	100	-	-
Texas		3,499	219,848	60,240	188	18,171	244	11,781	38	16,816	67	24,808
Utah		1,715	66,969	1,260	66	2,427	9	1,890	380	27,867	57	627
Vermont		126	1,230	127,463	8	8	20	23	-	-	-	-
Virginia		785	17,813	193,716	19	755	502	12,705	1	(D)	-	-
Washington		1,824	65,747	620,377	44	59	381	15,559	-	-	5	(D)
West Virginia		116	549	212,250	9	33	31	214	-	-	-	-
Wisconsin		655	12,630	788,303	57	78	230	3,653	-	-	-	-
Wyoming		380	91,049	-	13	4,030	6	9,900	58	9,364	2	(D)
Water Resources Regions												
Region 01 New England		878	8,249	457,897	126	190	230	4,796	-	-	-	-
Region 02 Mid-Atlantic		2,581	64,832	1,747,147	159	3,283	1,194	38,584	37	166	1	(D)
Region 03 South Atlantic-Gulf		6,486	312,206	1,359,411	686	22,044	2,192	154,289	110	1,390	18	3,678
Region 04 Great Lakes		2,313	41,209	1,813,087	223	3,696	722	17,532	48	(D)	6	6
Region 05 Ohio		2,704	58,928	3,099,816	351	3,428	1,160	32,463	43	212	7	33
Region 06 Tennessee		484	8,065	309,629	53	556	277	5,741	2	(D)	-	-
Region 07 Upper Mississippi		1,753	89,460	1,228,824	241	6,635	422	29,222	27	267	7	565
Region 08 Lower Mississippi		1,128	244,195	151,941	88	8,872	411	60,675	4	1,600	27	4,728
Region 09 Souris-Red-Rainy		76	16,919	18,348	5	650	30	5,279	-	-	2	(D)
Region 10 Missouri		3,520	500,223	276,752	325	16,974	430	47,275	362	46,176	95	775
Region 11 Arkansas-White-Red		2,443	168,601	38,904	145	18,094	788	22,697	198	22,673	348	19,647
Region 12 Texas-Gulf		2,772	183,340	60,240	188	18,171	233	11,424	39	15,691	38	11,448
Region 13 Rio Grande		1,638	62,102	-	55	2,806	310	9,487	485	13,126	19	7,560
Region 14 Upper Colorado		1,916	128,976	39,150	249	3,342	31	17,950	639	59,864	123	5,907
Region 15 Lower Colorado		425	24,966	-	131	131	14	3,840	23	460	-	-
Region 16 Great Basin		1,418	70,993	1,260	-	-	-	-	146	28,607	8	2,600
Region 17 Pacific Northwest		4,530	225,088	779,901	192	3,426	831	21,925	56	21,637	7	2,010
Region 18 California		3,901	306,915	48,000	450	13,111	127	20,652	661	106,583	576	97,319
Region 19 Alaska		36	475	216,252	9	26	13	30	-	-	-	-
Region 20 Hawaii		453	3,352	113,197	35	105	144	723	23	100	2	(D)

See footnote(s) at end of table.

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Table 27. **Discontinuance of All Irrigation by Reason: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Reason for discontinuance [1] - con.									
		Irrigation is uneconomical		Loss of water rights		Sold or leased water rights or annual water allocation		Sold or leased irrigated land or irrigated area under protection		Restrictions on water use	
		Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]
United States	2013	2,254	104,143	277	9,852	614	31,017	1,951	161,367	2,094	93,881
	2008	2,544	92,738	125	735	268	19,084	(NA)	(NA)	968	3,477
2013 DATA											
Alabama		14	256	-	-	2	(D)	11	80	10	70
Alaska		6	(D)	-	-	-	-	-	-	-	-
Arizona		-	-	-	-	-	-	2	(D)	-	-
Arkansas		45	6,057	-	-	-	-	6	21,270	4	80
California		12	6,008	-	-	2	(D)	380	22,838	350	16,840
Colorado		249	4,413	-	-	1	(D)	-	-	401	29,250
Connecticut		-	-	-	-	-	-	-	-	8	8
Delaware		14	495	-	-	-	-	4	120	-	-
Florida		111	8,181	9	(D)	153	3,967	96	2,782	23	(D)
Georgia		115	3,915	13	650	5	1,070	53	3,179	45	8,118
Hawaii		43	268	2	(D)	-	-	-	-	14	48
Idaho		-	-	-	-	277	7,122	244	10,240	45	6,906
Illinois		59	499	-	-	-	-	14	2,420	6	330
Indiana		29	63	-	-	-	-	32	4,366	11	11
Iowa		16	21	-	-	-	-	1	(D)	-	-
Kansas		120	9,720	35	8,400	-	-	25	25,222	-	-
Kentucky		53	382	-	-	7	140	1	(D)	13	74
Louisiana		26	1,816	-	-	-	-	11	3,096	17	816
Maine		-	-	-	-	44	(D)	-	-	-	-
Maryland		3	36	-	-	-	-	-	-	-	-
Massachusetts		-	-	-	-	-	-	-	-	-	-
Michigan		56	1,924	-	-	-	-	24	1,920	35	963
Minnesota		45	1,873	-	-	-	-	24	1,654	1	(D)
Mississippi		4	1,600	-	-	3	1,971	17	5,787	-	-
Missouri		114	10,744	-	-	-	-	4	864	-	-
Montana		171	752	83	332	-	-	105	13,706	160	7,204
Nebraska		6	90	-	-	-	-	150	(D)	-	-
Nevada		12	2,700	-	-	-	-	-	-	6	1,200
New Hampshire		6	35	-	-	2	(D)	-	-	3	3
New Jersey		11	208	-	-	-	-	-	-	-	-
New Mexico		6	1,710	131	131	-	-	262	786	241	4,470
New York		62	533	-	-	6	6	19	491	227	1,347
North Carolina		2	(D)	-	-	-	-	29	1,025	-	-
North Dakota		5	600	-	-	2	(D)	10	1,040	-	-
Ohio		29	832	-	-	-	-	-	-	-	-
Oklahoma		85	7,313	-	-	-	-	18	6,500	-	-
Oregon		3	3,000	-	-	3	1,500	18	6,372	11	11
Pennsylvania		67	494	4	290	-	-	2	(D)	25	991
Rhode Island		3	9	-	-	-	-	-	-	-	-
South Carolina		53	636	-	-	43	172	-	-	8	16
South Dakota		52	1,248	-	-	-	-	11	1,155	-	-
Tennessee		9	566	-	-	-	-	1	(D)	-	-
Texas		362	18,108	-	-	-	-	355	13,756	166	498
Utah		102	816	-	-	21	2,121	-	-	206	4,820
Vermont		3	15	-	-	-	-	-	-	-	-
Virginia		16	407	-	-	-	-	3	150	-	-
Washington		5	10	-	-	-	-	-	-	-	-
West Virginia		-	-	-	-	-	-	-	-	-	-
Wisconsin		20	120	-	-	41	755	6	(D)	-	-
Wyoming		30	4,760	-	-	2	(D)	13	5,239	58	7,504
Water Resources Regions											
Region 01 New England		12	59	-	-	46	99	-	-	11	11
Region 02 Mid-Atlantic		135	1,821	4	(D)	6	6	15	376	130	1,760
Region 03 South Atlantic-Gulf		304	13,755	22	659	203	5,659	189	7,066	86	8,487
Region 04 Great Lakes		93	2,604	-	-	-	-	42	3,297	150	1,534
Region 05 Ohio		87	548	-	-	7	140	27	1,468	25	(D)
Region 06 Tennessee		10	(D)	-	-	-	-	-	-	6	60
Region 07 Upper Mississippi		206	7,394	-	-	41	(D)	46	6,679	7	2,350
Region 08 Lower Mississippi		51	13,201	-	-	3	1,971	39	32,567	21	896
Region 09 Souris-Red-Rainy		-	-	-	-	-	-	-	-	-	-
Region 10 Missouri		287	9,212	118	8,732	2	(D)	289	22,040	365	22,033
Region 11 Arkansas-White-Red		256	21,153	-	-	-	-	43	31,722	77	8,393
Region 12 Texas-Gulf		196	15,950	-	-	-	-	355	13,756	166	498
Region 13 Rio Grande		166	2,158	-	-	-	-	131	655	43	946
Region 14 Upper Colorado		285	1,731	-	-	1	(D)	-	-	196	14,113
Region 15 Lower Colorado		-	-	131	131	-	-	133	2,291	131	(D)
Region 16 Great Basin		14	4,100	-	-	60	10,403	-	-	186	11,995
Region 17 Pacific Northwest		91	3,425	-	-	240	240	262	16,612	130	3,754
Region 18 California		12	6,008	-	-	5	(D)	380	22,838	350	16,840
Region 19 Alaska		6	(D)	-	-	-	-	-	-	-	-
Region 20 Hawaii		43	268	2	(D)	-	-	-	-	14	48

See footnote(s) at end of table.

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Table 27. **Discontinuance of All Irrigation by Reason: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Reason for discontinuance [1] - con.							
		Converted to non-agricultural uses		Converted to agricultural enterprise not requiring irrigation		Available surface water too salty		Other or unspecified (see text)	
		Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]	Farms	Acres irrigated in previous census year [2]
United States	2013	559	7,539	1,188	80,521	540	36,435	24,655	1,456,494
	2008	806	8,997	569	(D)	385	(D)	(NA)	(NA)
2013 DATA									
Alabama		7	64	18	78	7	64	291	6,267
Alaska		-	-	5	10	-	-	26	61
Arizona		-	-	12	1,440	-	-	358	19,443
Arkansas		-	-	15	7,500	-	-	196	26,520
California		8	24	-	-	-	-	2,918	216,681
Colorado		-	-	1	(D)	73	3,505	704	68,465
Connecticut		8	8	-	-	7	(D)	182	797
Delaware		-	-	-	-	-	-	45	7,677
Florida		287	4,238	101	3,468	33	6,323	1,336	30,692
Georgia		-	-	39	3,780	37	(D)	661	51,773
Hawaii		-	-	9	27	-	-	290	2,423
Idaho		-	-	43	2,580	-	-	711	52,317
Illinois		13	597	39	2,579	-	-	344	21,634
Indiana		-	-	12	12	16	(D)	335	9,579
Iowa		12	30	29	1,681	-	-	202	12,432
Kansas		8	8	64	8,320	-	-	277	27,934
Kentucky		19	115	30	310	-	-	552	9,573
Louisiana		-	-	30	2,423	-	-	303	34,091
Maine		-	-	-	-	-	-	172	1,211
Maryland		-	-	2	(D)	-	-	147	4,068
Massachusetts		54	54	-	-	8	208	99	605
Michigan		22	88	5	5	-	-	629	7,917
Minnesota		-	-	8	1,206	-	-	288	16,129
Mississippi		-	-	10	(D)	4	1,080	272	52,626
Missouri		5	5	68	3,697	11	5,574	395	38,702
Montana		-	-	83	332	-	-	970	110,493
Nebraska		-	-	-	-	-	-	268	147,630
Nevada		-	-	-	-	6	1,800	200	7,403
New Hampshire		-	-	-	-	2	(D)	65	326
New Jersey		5	5	8	647	-	-	212	4,950
New Mexico		-	-	140	3,761	11	4,335	777	26,998
New York		36	36	-	-	47	47	574	6,801
North Carolina		-	-	13	68	-	-	579	17,910
North Dakota		-	-	10	1,240	5	(D)	69	12,275
Ohio		6	(D)	5	5	-	-	509	4,859
Oklahoma		-	-	29	1,160	8	800	201	12,624
Oregon		6	6	9	3,006	-	-	966	59,715
Pennsylvania		5	(D)	31	164	5	180	688	2,850
Rhode Island		-	-	-	-	-	-	6	48
South Carolina		9	9	15	1,684	44	222	333	6,756
South Dakota		-	-	3	3,723	-	-	87	6,897
Tennessee		3	600	11	160	-	-	354	13,018
Texas		-	-	192	16,034	166	5,312	2,284	134,879
Utah		-	-	57	684	-	-	1,166	36,219
Vermont		-	-	8	8	-	-	95	1,184
Virginia		-	-	11	24	47	690	320	5,095
Washington		5	15	21	81	3	2,400	1,456	47,764
West Virginia		-	-	-	-	-	-	88	338
Wisconsin		41	102	2	(D)	-	-	382	8,059
Wyoming		-	-	-	-	-	-	273	61,786
Water Resources Regions									
Region 01 New England		62	62	-	-	17	221	547	3,065
Region 02 Mid-Atlantic		46	361	34	837	11	756	1,373	24,131
Region 03 South Atlantic-Gulf		303	4,311	187	9,040	170	10,505	3,475	117,818
Region 04 Great Lakes		48	140	18	18	41	41	1,419	20,226
Region 05 Ohio		21	(D)	42	(D)	6	550	1,463	23,225
Region 06 Tennessee		1	(D)	28	432	-	-	214	2,579
Region 07 Upper Mississippi		39	469	64	5,168	19	386	1,028	43,044
Region 08 Lower Mississippi		2	(D)	41	8,863	4	5,224	647	136,280
Region 09 Souris-Red-Rainy		-	-	-	-	-	-	53	13,930
Region 10 Missouri		10	10	173	9,809	78	4,105	1,789	358,986
Region 11 Arkansas-White-Red		8	8	118	13,315	8	800	998	73,189
Region 12 Texas-Gulf		-	-	179	8,754	177	9,647	1,776	121,526
Region 13 Rio Grande		-	-	16	9,200	-	-	805	30,215
Region 14 Upper Colorado		-	-	58	(D)	-	-	999	42,527
Region 15 Lower Colorado		-	-	143	1,571	-	-	388	20,906
Region 16 Great Basin		-	-	-	-	6	1,800	1,161	38,877
Region 17 Pacific Northwest		11	21	73	5,667	3	2,400	3,262	159,489
Region 18 California		8	24	-	-	-	-	2,942	223,997
Region 19 Alaska		-	-	5	10	-	-	26	61
Region 20 Hawaii		-	-	9	27	-	-	290	2,423

[1] Respondents could choose more than one reason for not irrigating.
[2] Acres and square feet irrigated are totals for all irrigation on these farms. Data were acquired from the 2012 and 2007 Censuses of Agriculture results.

Table 28. **Land Irrigated in the Open by Method of Water Distribution: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Acres irrigated	Gravity systems [1]		Sprinkler systems		Drip, trickle, or low-flow micro sprinklers	
		Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	55,283,340	85,159	21,504,684	121,655	34,894,109	59,435	4,889,912
2008 [2]	54,929,915	90,453	22,217,750	114,348	30,877,057	43,368	3,756,134
2013 DATA							
Alabama	100,605	97	4,419	573	103,131	465	9,973
Alaska	968	11	69	66	1,018	54	111
Arizona	851,407	3,005	748,012	1,640	240,691	471	50,208
Arkansas	4,949,965	3,356	4,296,734	1,578	1,207,773	304	28,785
California	7,543,928	15,231	4,539,426	13,479	1,662,125	25,408	2,783,022
Colorado	2,309,178	9,044	1,196,805	5,550	1,470,829	738	10,126
Connecticut	4,557	41	336	303	2,691	255	3,261
Delaware	114,738	9	18	304	123,652	107	3,632
Florida	1,356,561	363	573,147	4,070	377,278	4,367	645,071
Georgia	1,196,373	256	4,866	2,556	1,135,450	1,255	175,960
Hawaii	75,770	228	11,788	729	10,233	1,057	61,127
Idaho	3,511,751	7,902	757,753	8,249	3,088,161	252	28,149
Illinois	541,281	65	8,523	1,359	583,527	423	10,420
Indiana	454,346	62	4,585	1,271	485,970	470	6,289
Iowa	175,514	75	1,564	645	179,003	248	2,615
Kansas	2,851,085	1,100	106,984	4,699	2,865,244	477	72,663
Kentucky	50,663	66	428	396	45,564	556	7,548
Louisiana	1,096,228	1,416	969,325	859	261,854	267	5,993
Maine	20,290	22	34	376	19,970	274	887
Maryland	100,530	44	646	511	102,059	389	9,562
Massachusetts	26,800	61	2,091	812	25,530	437	3,981
Michigan	586,466	135	1,998	2,430	589,389	1,136	36,558
Minnesota	516,063	95	21,741	1,737	527,697	275	6,725
Mississippi	1,701,494	1,064	1,265,091	1,087	530,478	273	21,166
Missouri	1,235,005	918	760,732	1,176	588,721	726	64,160
Montana	1,872,286	5,350	1,144,584	3,208	849,332	344	1,079
Nebraska	8,297,457	7,191	1,251,630	12,965	7,362,241	875	36,168
Nevada	689,953	1,607	469,556	837	289,042	78	3,382
New Hampshire	3,773	36	160	190	2,063	233	2,294
New Jersey	80,071	41	2,704	811	73,380	639	28,099
New Mexico	694,571	7,112	289,732	1,865	458,284	1,069	30,253
New York	47,580	76	1,069	922	39,351	797	11,932
North Carolina	135,707	173	1,841	1,440	131,949	967	15,523
North Dakota	213,686	140	28,108	419	194,545	22	334
Ohio	40,854	78	695	542	34,259	710	13,540
Oklahoma	426,296	138	14,010	1,243	429,033	400	7,747
Oregon	1,553,034	3,975	571,531	8,800	1,141,042	2,373	85,456
Pennsylvania	22,523	141	1,206	817	11,835	1,775	12,761
Rhode Island	2,996	9	163	128	2,552	162	519
South Carolina	133,816	88	5,577	690	108,599	396	34,442
South Dakota	369,802	371	51,774	967	332,929	44	164
Tennessee	145,965	76	8,419	532	146,200	341	8,179
Texas	4,489,837	3,246	560,944	8,761	3,980,081	3,207	280,045
Utah	1,124,729	5,431	592,225	6,569	663,834	499	5,859
Vermont	2,127	60	177	245	1,727	208	686
Virginia	49,141	29	162	553	43,194	666	8,399
Washington	1,623,123	1,259	169,489	8,618	1,420,224	2,277	250,033
West Virginia	1,319	7	106	98	712	102	626
Wisconsin	472,856	149	8,034	1,792	497,601	540	3,763
Wyoming	1,418,272	3,710	1,053,673	2,188	452,062	27	637
Water Resources Regions							
Region 01 New England	58,842	179	2,797	1,903	53,199	1,435	11,071
Region 02 Mid-Atlantic	388,390	314	4,912	3,407	372,837	3,725	68,287
Region 03 South Atlantic-Gulf	2,935,603	1,039	593,083	9,630	1,859,749	7,614	882,046
Region 04 Great Lakes	817,946	266	3,576	3,796	829,289	2,176	48,265
Region 05 Ohio	354,602	189	4,528	1,863	365,480	1,763	26,129
Region 06 Tennessee	57,459	72	395	470	57,752	348	8,675
Region 07 Upper Mississippi	1,533,177	367	37,496	4,917	1,602,717	1,394	19,636
Region 08 Lower Mississippi	8,013,416	5,733	6,483,957	3,280	2,351,503	524	104,292
Region 09 Souris-Red-Rainy	175,021	50	17,431	385	167,479	28	907
Region 10 Missouri	13,598,476	17,663	3,491,310	22,861	10,801,661	1,942	78,508
Region 11 Arkansas-White-Red ..	5,227,723	3,226	1,135,891	7,208	4,399,625	1,265	79,239
Region 12 Texas-Gulf	3,027,926	2,594	474,752	6,819	2,541,793	2,748	224,420
Region 13 Rio Grande	802,574	7,223	366,462	2,195	499,565	1,227	66,874
Region 14 Upper Colorado	1,321,937	7,297	1,035,080	4,734	494,751	577	1,945
Region 15 Lower Colorado	915,691	3,440	797,472	2,040	269,542	494	52,308
Region 16 Great Basin	1,557,939	5,504	871,799	5,271	833,044	458	8,715
Region 17 Pacific Northwest	6,723,954	14,308	1,573,577	26,223	5,605,272	5,186	363,279
Region 18 California	7,695,926	15,456	4,598,309	13,858	1,777,600	25,420	2,784,078
Region 19 Alaska	968	11	69	66	1,018	54	111
Region 20 Hawaii	75,770	228	11,788	729	10,233	1,057	61,127

[1] Subirrigation data were collected as a separate item in 2008 but were collected under "Other gravity systems" for 2013.
[2] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 29. **Land Irrigated in the Open by Sprinkler Systems: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Acres irrigated	Center pivot system							
			Farms	Acres irrigated	Low pressure under 30 psi		Medium pressure 30 to 59 psi		High pressure 60 psi or more	
					Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	121,655	34,894,109	57,410	27,879,177	27,685	12,770,489	28,890	13,396,454	5,498	1,712,234
2008 [1]	114,348	30,877,057	53,395	25,620,477	26,970	13,142,448	23,556	10,890,479	6,484	1,587,550
2013 DATA										
Alabama	573	103,131	274	85,615	98	26,526	175	54,376	21	4,713
Alaska	66	1,018	2	(D)	1	(D)	1	(D)	-	-
Arizona	1,640	240,691	379	111,947	115	83,928	258	24,209	11	3,810
Arkansas	1,578	1,207,773	753	585,145	256	180,715	503	371,787	82	32,643
California	13,479	1,662,125	2,517	148,858	1,670	59,896	734	68,695	135	20,267
Colorado	5,550	1,470,829	3,135	1,249,417	1,442	586,545	1,706	635,657	173	27,215
Connecticut	303	2,691	65	165	34	78	21	21	10	66
Delaware	304	123,652	241	109,718	95	29,304	170	74,493	6	5,921
Florida	4,070	377,278	1,365	136,211	652	58,937	545	59,318	237	17,956
Georgia	2,556	1,135,450	1,725	1,017,219	509	242,544	1,245	687,416	223	87,259
Hawaii	729	10,233	152	814	73	(D)	79	(D)	37	(D)
Idaho	8,249	3,088,161	3,025	2,229,589	1,206	713,280	1,748	1,285,602	342	230,707
Illinois	1,359	583,527	1,026	500,126	390	184,113	614	286,309	114	29,704
Indiana	1,271	485,970	952	441,143	355	137,925	605	278,143	117	25,075
Iowa	645	179,003	480	170,545	190	64,375	271	99,157	51	7,013
Kansas	4,699	2,865,244	4,480	2,816,809	3,007	1,942,624	1,663	856,347	51	17,838
Kentucky	396	45,564	127	39,224	42	5,628	78	32,553	16	1,043
Louisiana	859	261,854	296	123,781	162	54,940	139	60,268	35	8,573
Maine	376	19,970	77	(D)	45	278	15	2,612	17	(D)
Maryland	511	102,059	288	88,323	137	38,706	167	47,270	20	2,347
Massachusetts	812	25,530	168	(D)	22	65	132	1,883	14	(D)
Michigan	2,430	589,389	1,016	477,236	248	114,367	679	277,617	258	85,252
Minnesota	1,737	527,697	1,323	483,164	591	211,046	718	234,697	176	37,421
Mississippi	1,087	530,478	665	430,872	244	142,511	380	222,000	107	66,361
Missouri	1,176	588,721	809	486,387	475	298,992	321	165,882	65	21,513
Montana	3,208	849,332	1,421	595,590	435	227,395	791	309,955	267	58,240
Nebraska	12,965	7,362,241	12,573	7,274,378	4,679	2,093,606	8,135	4,711,072	1,245	469,700
Nevada	837	289,042	348	238,337	164	102,171	186	129,341	12	6,825
New Hampshire	190	2,063	17	17	14	14	3	3	-	-
New Jersey	811	73,380	193	22,409	72	10,901	100	11,069	26	439
New Mexico	1,865	458,284	804	396,227	715	299,390	121	93,869	22	2,968
New York	922	39,351	159	10,894	100	8,542	51	1,812	19	540
North Carolina	1,440	131,949	358	70,447	167	32,961	174	29,508	47	7,978
North Dakota	419	194,545	376	189,942	163	77,384	205	99,540	30	13,018
Ohio	542	34,259	106	18,259	49	3,328	51	11,350	14	3,581
Oklahoma	1,243	429,033	847	412,333	648	289,101	223	117,294	24	5,938
Oregon	8,800	1,141,042	1,990	543,142	603	201,770	1,115	267,691	362	73,681
Pennsylvania	817	11,835	146	3,864	68	1,111	59	1,233	20	1,520
Rhode Island	128	2,552	26	372	16	217	8	150	5	5
South Carolina	690	108,599	312	90,029	104	31,583	163	49,096	85	9,350
South Dakota	967	332,929	827	318,708	306	90,710	466	203,471	151	24,527
Tennessee	532	146,200	278	128,181	110	41,422	174	81,742	21	5,017
Texas	8,761	3,980,081	5,787	3,717,821	4,797	3,267,610	1,075	440,595	87	9,616
Utah	6,569	663,834	1,592	326,144	667	124,696	930	176,708	126	24,740
Vermont	245	1,727	24	95	-	-	19	43	5	52
Virginia	553	43,194	182	23,547	51	(D)	134	16,443	1	(D)
Washington	8,618	1,420,224	1,697	990,074	807	448,522	834	426,619	218	114,933
West Virginia	98	712	18	(D)	8	(D)	6	6	4	(D)
Wisconsin	1,792	497,601	850	427,345	217	62,789	443	234,178	354	130,378
Wyoming	2,188	452,062	1,139	340,957	666	170,259	457	156,691	35	14,007
Water Resources Regions										
Region 01 New England	1,903	53,199	356	7,603	131	652	182	4,672	46	2,279
Region 02 Mid-Atlantic	3,407	372,837	1,076	(D)	457	88,036	617	149,925	82	(D)
Region 03 South Atlantic-Gulf	9,630	1,859,749	4,148	1,395,809	1,550	382,771	2,368	880,697	635	132,341
Region 04 Great Lakes	3,796	829,289	1,596	684,689	475	165,379	977	383,221	413	136,089
Region 05 Ohio	1,863	365,480	809	303,235	277	97,515	518	190,638	94	15,082
Region 06 Tennessee	470	57,752	145	48,760	43	(D)	98	28,919	13	(D)
Region 07 Upper Mississippi	4,917	1,602,717	3,384	1,422,446	1,362	478,859	1,788	771,390	625	172,197
Region 08 Lower Mississippi	3,280	2,351,503	1,989	1,468,485	916	602,128	1,104	754,792	216	111,565
Region 09 Souris-Red-Rainy	385	167,479	312	160,694	141	75,529	175	78,208	28	6,957
Region 10 Missouri	22,861	10,801,661	19,396	10,368,911	7,899	3,579,922	11,752	6,198,958	1,661	590,031
Region 11 Arkansas-White-Red	7,208	4,399,625	6,023	4,226,121	3,938	3,115,510	2,154	1,074,899	212	35,712
Region 12 Texas-Gulf	6,819	2,541,793	4,230	2,351,296	3,642	2,124,926	644	222,674	70	3,696
Region 13 Rio Grande	2,195	499,565	1,099	395,929	893	(D)	264	159,725	11	(D)
Region 14 Upper Colorado	4,734	494,751	1,418	235,601	813	85,924	632	138,876	57	10,801
Region 15 Lower Colorado	2,040	269,542	471	128,576	129	88,908	303	30,640	54	9,028
Region 16 Great Basin	5,271	833,044	1,332	521,476	586	235,467	737	261,952	72	24,057
Region 17 Pacific Northwest	26,223	5,605,272	6,847	3,697,494	2,671	1,327,606	3,703	1,974,690	996	395,198
Region 18 California	13,858	1,777,600	2,625	212,097	1,688	73,093	794	90,915	176	48,089
Region 19 Alaska	66	1,018	2	(D)	1	(D)	1	(D)	-	-
Region 20 Hawaii	729	10,233	152	814	73	(D)	79	(D)	37	(D)

See footnote(s) at end of table.

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Table 29. **Land Irrigated in the Open by Sprinkler Systems: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Linear move tower sprinklers						Solid set and permanent sprinklers					
			Low pressure under 30 psi		Medium to high pressure 30 psi or more				Low pressure under 30 psi		Medium to high pressure 30 psi or more	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	4,717	625,566	1,718	257,237	3,089	368,329	20,797	1,486,739	5,447	341,288	16,052	1,145,451
2008 [1]	2,583	395,380	1,475	239,724	1,129	155,656	23,323	1,184,953	6,534	195,255	17,226	989,698
2013 DATA												
Alabama	14	452	1	(D)	14	(D)	103	7,043	18	1,380	92	5,663
Alaska	2	(D)	-	-	2	(D)	10	10	-	-	10	10
Arizona	137	4,252	31	249	106	4,003	274	56,563	68	2,628	206	53,935
Arkansas	71	22,953	44	10,993	27	11,960	133	47,200	11	74	122	47,126
California	741	95,403	204	42,745	543	52,658	5,418	681,132	2,134	149,401	3,555	531,731
Colorado	276	13,543	198	11,324	78	2,219	991	39,789	76	807	922	38,982
Connecticut	14	21	7	(D)	7	(D)	54	1,661	30	700	24	961
Delaware	14	6,898	7	2,256	9	4,642	17	1,074	4	104	13	970
Florida	65	21,433	40	12,162	30	9,271	1,594	76,853	524	44,758	1,104	32,095
Georgia	45	12,132	9	1,260	36	10,872	447	39,071	157	12,618	297	26,453
Hawaii	19	869	6	30	13	839	146	2,490	43	205	103	2,285
Idaho	518	124,792	48	25,112	484	99,680	1,005	43,178	305	20,287	700	22,891
Illinois	85	8,603	37	2,249	50	6,354	84	6,445	25	4,220	59	2,225
Indiana	45	6,202	16	3,307	29	2,895	61	1,800	6	6	55	1,794
Iowa	12	2,072	5	(D)	9	(D)	30	353	-	-	30	353
Kansas	100	14,650	65	12,165	35	2,485	14	777	7	770	7	7
Kentucky	35	(D)	21	(D)	14	292	43	695	6	6	37	689
Louisiana	35	6,359	24	3,144	11	3,215	186	17,852	63	11,306	128	6,546
Maine	3	170	-	-	3	170	70	(D)	8	16	62	(D)
Maryland	17	1,360	5	576	12	784	56	468	8	128	48	340
Massachusetts	28	399	7	21	21	378	389	(D)	83	609	312	(D)
Michigan	87	4,338	13	140	74	4,198	528	25,305	54	3,206	485	22,099
Minnesota	40	10,270	17	6,063	30	4,207	128	4,078	16	1,648	115	2,430
Mississippi	60	8,405	11	4,374	49	4,031	79	10,790	8	(D)	72	(D)
Missouri	22	3,915	9	3,580	13	335	35	12,721	4	1,940	31	10,781
Montana	227	14,067	89	2,243	138	11,824	144	4,297	10	55	139	4,242
Nebraska	86	13,839	57	7,796	29	6,043	19	87	8	16	11	71
Nevada	36	7,408	5	340	33	7,068	20	4,381	1	(D)	19	(D)
New Hampshire	8	16	-	-	8	16	54	381	-	-	54	381
New Jersey	37	5,309	15	2,319	27	2,990	160	13,294	28	1,680	134	11,614
New Mexico	20	6,490	15	3,036	11	3,454	112	6,888	52	1,538	104	5,350
New York	65	2,142	50	98	23	2,044	166	2,169	31	245	145	1,924
North Carolina	73	5,797	35	632	53	5,165	341	11,606	102	2,847	258	8,759
North Dakota	7	1,020	4	330	3	690	13	95	-	-	13	95
Ohio	20	963	8	(D)	12	(D)	96	3,174	23	1,743	76	1,431
Oklahoma	57	3,338	36	1,232	21	2,106	37	1,905	-	-	37	1,905
Oregon	465	60,204	211	23,525	268	36,679	2,073	69,242	759	17,719	1,470	51,523
Pennsylvania	58	609	34	91	24	518	101	1,598	25	145	76	1,453
Rhode Island	12	12	12	12	-	-	9	(D)	6	42	3	(D)
South Carolina	4	1,044	-	-	4	1,044	119	3,851	37	1,143	93	2,708
South Dakota	7	811	4	640	3	171	20	1,615	-	-	20	1,615
Tennessee	21	1,347	12	(D)	9	(D)	71	660	26	166	45	494
Texas	146	71,789	119	61,363	28	10,426	737	31,884	276	24,688	461	7,196
Utah	238	22,664	30	3,475	208	19,189	709	23,146	147	4,157	646	18,989
Vermont	5	28	3	(D)	2	(D)	54	206	17	17	37	189
Virginia	14	1,490	3	220	11	1,270	121	2,629	1	(D)	120	(D)
Washington	491	19,620	124	5,085	367	14,535	3,236	170,954	213	24,722	3,039	146,232
West Virginia	-	-	-	-	-	-	11	65	-	-	11	65
Wisconsin	46	1,988	27	500	19	1,488	462	28,733	14	274	448	28,459
Wyoming	89	13,650	-	-	89	13,650	17	2,340	13	260	4	2,080
Water Resources Regions												
Region 01 New England	65	618	26	47	39	571	586	26,307	129	1,369	463	24,938
Region 02 Mid-Atlantic	129	16,730	47	5,463	97	11,267	527	18,672	83	2,237	456	16,435
Region 03 South Atlantic-Gulf	256	43,037	91	14,392	186	28,645	2,630	139,869	822	63,992	1,875	75,877
Region 04 Great Lakes	188	7,790	93	1,190	95	6,600	747	29,350	89	3,336	671	26,014
Region 05 Ohio	85	6,465	34	2,659	51	3,806	221	4,551	39	1,716	183	2,835
Region 06 Tennessee	13	(D)	5	5	8	(D)	83	2,389	41	602	53	1,787
Region 07 Upper Mississippi	165	16,998	79	8,686	88	8,312	616	36,752	47	4,937	569	31,815
Region 08 Lower Mississippi	102	31,954	74	19,193	28	12,761	318	84,258	71	14,072	253	70,186
Region 09 Souris-Red-Rainy	10	4,050	7	1,680	10	2,370	21	1,392	3	1,200	21	192
Region 10 Missouri	544	57,258	226	21,261	320	35,997	538	11,095	55	1,318	495	9,777
Region 11 Arkansas-White-Red	135	31,794	81	19,951	54	11,843	246	13,250	94	3,664	152	9,586
Region 12 Texas-Gulf	108	53,527	94	47,963	15	5,564	711	25,921	249	18,718	462	7,203
Region 13 Rio Grande	19	6,452	15	3,036	10	3,416	116	20,683	55	4,508	105	16,175
Region 14 Upper Colorado	227	15,815	191	11,430	36	4,385	573	22,113	21	630	552	21,483
Region 15 Lower Colorado	137	4,252	31	249	106	4,003	404	59,301	96	3,652	328	55,649
Region 16 Great Basin	215	23,172	10	1,435	207	21,737	516	20,845	107	3,027	473	17,818
Region 17 Pacific Northwest	1,551	205,366	401	53,562	1,178	151,804	6,372	282,969	1,274	62,608	5,270	220,361
Region 18 California	747	97,873	207	45,005	546	52,868	5,416	684,522	2,129	149,497	3,558	535,025
Region 19 Alaska	2	(D)	-	-	2	(D)	10	10	-	-	10	10
Region 20 Hawaii	19	869	6	30	13	839	146	2,490	43	205	103	2,285

See footnote(s) at end of table.

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Table 29. **Land Irrigated in the Open by Sprinkler Systems: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Side roll, wheel move, or other mechanical move		Big gun or traveler		Hand move		Other sprinkler system (see text)	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	16,806	1,859,017	8,446	558,308	29,936	820,806	11,973	1,664,496
2008 [1]	18,656	1,885,420	9,906	696,380	29,461	1,094,447	(NA)	(NA)
2013 DATA								
Alabama	23	2,489	55	4,653	159	1,238	50	1,641
Alaska	8	185	2	(D)	57	(D)	12	17
Arizona	199	8,776	125	899	437	32,287	213	25,967
Arkansas	43	17,168	122	16,433	138	35,664	549	483,210
California	869	166,574	107	5,906	3,468	138,084	1,918	426,168
Colorado	635	75,024	40	348	1,276	30,767	329	61,941
Connecticut	10	37	36	163	177	321	44	323
Delaware	35	2,753	39	2,336	14	470	27	403
Florida	132	15,277	319	29,910	390	2,902	1,081	94,692
Georgia	119	19,625	281	28,011	293	2,810	207	16,582
Hawaii	8	38	12	1,565	306	1,130	199	3,327
Idaho	2,784	458,719	403	5,906	4,261	199,658	472	26,319
Illinois	107	56,474	123	8,356	158	1,485	69	2,038
Indiana	82	22,506	133	12,128	159	672	83	1,519
Iowa	42	3,915	18	1,598	112	447	23	73
Kansas	114	20,023	39	929	115	180	97	11,876
Kentucky	24	2,083	42	1,884	132	(D)	59	789
Louisiana	18	2,727	44	6,476	130	14,513	294	90,146
Maine	2	(D)	20	2,981	212	429	35	62
Maryland	14	4,224	56	5,548	102	385	51	1,751
Massachusetts	22	985	107	5,864	259	2,884	84	547
Michigan	88	9,177	617	60,921	570	5,609	307	6,803
Minnesota	50	12,391	192	13,685	200	1,576	78	2,533
Mississippi	27	12,135	60	3,327	171	1,444	148	63,505
Missouri	114	17,322	126	5,310	198	1,654	159	61,412
Montana	1,352	164,267	304	8,539	1,074	44,766	182	17,806
Nebraska	152	8,112	297	9,496	541	8,826	189	47,503
Nevada	393	25,951	8	24	169	3,333	81	9,608
New Hampshire	25	185	20	1,128	105	219	37	117
New Jersey	20	2,118	255	23,640	262	5,054	124	1,556
New Mexico	220	25,943	6	1,449	591	12,254	249	9,033
New York	23	2,121	237	16,032	429	2,749	177	3,244
North Carolina	31	6,320	386	30,563	370	4,548	151	2,668
North Dakota	4	1,200	16	825	26	587	12	876
Ohio	10	244	108	7,368	230	2,344	102	1,907
Oklahoma	113	6,384	33	682	295	2,673	51	1,718
Oregon	2,240	224,305	1,601	88,896	3,278	121,504	1,316	33,749
Pennsylvania	48	537	97	3,437	362	1,035	170	755
Rhode Island	3	(D)	10	1,183	67	627	30	254
South Carolina	30	5,799	53	5,371	179	968	85	1,537
South Dakota	33	3,297	32	1,078	89	3,724	52	3,696
Tennessee	22	8,968	37	4,078	111	665	58	2,301
Texas	794	45,840	531	36,532	832	10,619	1,016	65,596
Utah	3,757	230,474	167	6,005	2,668	45,357	412	10,044
Vermont	9	134	22	173	176	1,039	19	52
Virginia	29	1,942	103	8,891	163	1,431	174	3,264
Washington	1,309	92,229	517	56,098	3,529	45,923	460	45,326
West Virginia	-	-	5	(D)	66	(D)	9	21
Wisconsin	64	15,111	240	15,973	368	3,881	167	4,570
Wyoming	556	56,863	243	5,538	462	19,063	62	13,651
Water Resources Regions								
Region 01 New England	63	1,363	201	11,391	887	4,601	243	1,316
Region 02 Mid-Atlantic	166	13,498	721	55,570	1,081	(D)	651	10,210
Region 03 South Atlantic-Gulf	343	50,045	1,107	101,233	1,442	12,880	1,631	116,876
Region 04 Great Lakes	131	14,166	822	72,135	1,046	9,577	443	11,582
Region 05 Ohio	104	27,789	227	19,222	557	2,914	244	1,304
Region 06 Tennessee	12	827	50	2,424	197	(D)	43	1,256
Region 07 Upper Mississippi	230	78,359	488	33,864	683	6,591	277	7,707
Region 08 Lower Mississippi	123	52,405	126	23,033	238	51,194	863	640,174
Region 09 Souris-Red-Rainy	6	680	3	(D)	55	(D)	6	6
Region 10 Missouri	1,690	170,769	794	25,095	2,183	51,174	754	117,359
Region 11 Arkansas-White-Red	251	33,565	184	6,176	543	4,043	485	84,676
Region 12 Texas-Gulf	783	34,219	507	27,652	659	9,450	787	39,728
Region 13 Rio Grande	174	40,823	30	10,329	658	7,282	268	18,067
Region 14 Upper Colorado	2,003	134,270	56	3,186	1,581	51,888	229	31,878
Region 15 Lower Colorado	445	14,072	149	2,711	401	34,663	213	25,967
Region 16 Great Basin	2,859	197,756	130	1,652	2,163	50,233	367	17,910
Region 17 Pacific Northwest	6,232	787,457	2,707	152,612	11,642	372,362	2,328	107,012
Region 18 California	1,175	206,731	130	8,406	3,557	139,847	1,930	428,124
Region 19 Alaska	8	185	2	(D)	57	(D)	12	17
Region 20 Hawaii	8	38	12	1,565	306	1,130	199	3,327

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 30. **Land Irrigated in the Open by Drip, Trickle, or Low-Flow Micro Sprinklers: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Acres irrigated	Surface drip		Sub-surface drip		Low-flow micro sprinklers		Other drip, trickle, or low-flow micro systems (see text)	
			Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	59,435	4,889,912	41,135	2,583,201	6,412	766,901	15,050	1,269,483	3,947	270,327
2008 [1]	43,368	3,756,134	25,716	1,714,859	4,694	641,370	15,871	1,399,905	(NA)	(NA)
2013 DATA										
Alabama	465	9,973	395	6,481	46	2,335	41	694	35	463
Alaska	54	111	52	106	3	5	-	-	-	-
Arizona	471	50,208	387	15,353	26	24,124	231	5,940	27	4,791
Arkansas	304	28,785	216	14,221	95	1,026	11	13,480	53	58
California	25,408	2,783,022	16,106	1,588,184	1,463	369,828	9,152	746,104	1,785	78,906
Colorado	738	10,126	682	5,068	23	4,767	222	277	7	14
Connecticut	255	3,261	203	1,796	50	134	43	683	34	648
Delaware	107	3,632	84	1,911	13	1,278	-	-	13	443
Florida	4,367	645,071	2,237	242,657	396	35,504	1,974	314,589	451	52,321
Georgia	1,255	175,960	971	94,994	175	35,648	244	26,257	66	19,061
Hawaii	1,057	61,127	846	57,756	44	2,342	168	619	125	410
Idaho	252	28,149	227	18,350	13	960	15	8,063	25	776
Illinois	423	10,420	361	7,291	30	2,823	22	35	46	271
Indiana	470	6,289	392	3,973	48	342	37	929	32	1,045
Iowa	248	2,615	219	(D)	31	503	4	1,404	22	(D)
Kansas	477	72,663	243	2,544	150	19,985	70	40,510	22	9,624
Kentucky	556	7,548	445	6,648	64	546	54	332	22	22
Louisiana	267	5,993	221	4,452	26	877	46	534	37	130
Maine	274	887	251	698	39	148	9	33	8	8
Maryland	389	9,562	321	6,724	68	2,302	6	(D)	25	(D)
Massachusetts	437	3,981	408	2,639	28	553	15	733	28	56
Michigan	1,136	36,558	942	23,901	169	4,843	116	4,611	93	3,203
Minnesota	275	6,725	216	4,088	23	64	41	1,670	41	903
Mississippi	273	21,166	200	18,519	41	2,112	4	500	35	35
Missouri	726	64,160	634	20,972	75	1,250	29	715	49	41,223
Montana	344	1,079	251	654	-	-	93	425	-	-
Nebraska	875	36,168	276	7,499	607	28,597	21	72	-	-
Nevada	78	3,382	71	1,638	3	1,200	4	(D)	1	(D)
New Hampshire	233	2,294	185	454	56	1,818	11	(D)	11	(D)
New Jersey	639	28,099	526	22,583	94	4,136	44	510	27	870
New Mexico	1,069	30,253	975	12,614	44	14,770	56	2,869	-	-
New York	797	11,932	617	9,856	193	1,512	57	90	58	474
North Carolina	967	15,523	794	11,583	140	1,920	52	1,781	46	239
North Dakota	22	334	22	334	-	-	-	-	-	-
Ohio	710	13,540	586	8,522	123	1,464	29	76	52	3,478
Oklahoma	400	7,747	334	4,307	36	2,375	39	716	72	349
Oregon	2,373	85,456	1,861	57,487	86	7,210	605	19,335	80	1,424
Pennsylvania	1,775	12,761	1,359	9,385	466	2,524	54	308	77	544
Rhode Island	162	519	157	491	3	3	2	(D)	15	(D)
South Carolina	396	34,442	307	23,106	84	1,687	13	(D)	46	(D)
South Dakota	44	164	43	(D)	-	-	-	-	1	(D)
Tennessee	341	8,179	282	6,415	64	(D)	26	1,231	35	(D)
Texas	3,207	280,045	2,028	81,569	785	170,972	421	3,095	40	24,409
Utah	499	5,859	284	897	8	(D)	94	4,050	146	(D)
Vermont	208	686	164	552	47	122	10	(D)	2	(D)
Virginia	666	8,399	542	6,823	79	864	73	593	33	119
Washington	2,277	250,033	1,662	162,653	262	9,488	751	55,355	84	22,537
West Virginia	102	626	81	575	16	33	7	15	3	3
Wisconsin	540	3,763	446	2,493	73	1,091	26	52	37	127
Wyoming	27	637	23	621	4	4	8	12	-	-
Water Resources Regions										
Region 01 New England	1,435	11,071	1,223	6,109	231	2,749	83	1,473	98	740
Region 02 Mid-Atlantic	3,725	68,287	2,978	52,698	731	11,250	215	1,540	214	2,799
Region 03 South Atlantic-Gulf	7,614	882,046	4,833	380,117	849	77,593	2,315	352,962	669	71,374
Region 04 Great Lakes	2,176	48,265	1,778	32,621	364	7,043	172	4,758	130	3,843
Region 05 Ohio	1,763	26,129	1,444	16,841	255	4,249	100	1,085	109	3,954
Region 06 Tennessee	348	8,675	271	6,140	59	709	36	811	35	1,015
Region 07 Upper Mississippi	1,394	19,636	1,181	14,473	117	1,771	99	2,594	136	798
Region 08 Lower Mississippi	524	104,292	431	44,469	80	3,591	62	15,060	89	41,172
Region 09 Souris-Red-Rainy	28	907	20	337	6	(D)	-	-	2	(D)
Region 10 Missouri	1,942	78,508	1,086	11,630	766	34,607	318	32,106	57	165
Region 11 Arkansas-White-Red	1,265	79,239	951	23,424	267	34,980	53	10,700	103	10,135
Region 12 Texas-Gulf	2,748	224,420	1,630	60,241	729	157,443	424	4,535	26	2,201
Region 13 Rio Grande	1,227	66,874	1,143	29,849	37	13,396	53	1,429	6	22,200
Region 14 Upper Colorado	577	1,945	469	1,586	-	-	19	53	102	306
Region 15 Lower Colorado	494	52,308	397	15,503	39	26,074	231	5,940	27	4,791
Region 16 Great Basin	458	8,715	338	2,350	11	(D)	91	4,541	45	(D)
Region 17 Pacific Northwest	5,186	363,279	3,946	237,711	361	17,658	1,459	83,173	189	24,737
Region 18 California	25,420	2,784,078	16,118	1,589,240	1,463	369,828	9,152	746,104	1,785	78,906
Region 19 Alaska	54	111	52	106	3	5	-	-	-	-
Region 20 Hawaii	1,057	61,127	846	57,756	44	2,342	168	619	125	410

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 31. **Land Irrigated in the Open with Gravity Irrigation by Field Water Delivery System: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Farms	Acres irrigated	Down rows or furrows											
					Above-ground pipe (except poly tubing)		Poly tubing (or other single-year use, lay-flat tubing)		Open surface ditches				Underground pipe	
									Lined		Unlined			
			Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	85,159	21,504,684	42,955	10,485,453	14,011	1,889,948	11,441	4,690,174	5,573	1,113,705	15,115	2,235,011	5,577	556,615
2008 [1]	90,453	22,217,750	44,969	10,930,135	16,489	2,563,429	10,181	4,273,202	7,040	1,270,937	12,890	2,251,902	4,555	570,665
2013 DATA														
Alabama	97	4,419	71	3,483	7	1,627	48	961	6	56	10	654	3	185
Alaska	11	69	6	64	4	(D)	-	-	-	-	2	(D)	-	-
Arizona	3,005	748,012	1,004	386,641	149	6,527	43	17,571	439	328,964	387	27,545	69	6,034
Arkansas	3,356	4,296,734	2,637	2,541,859	383	280,258	2,029	2,027,590	33	10,230	320	133,941	141	89,840
California	15,231	4,539,426	5,581	1,460,189	324	146,934	1,695	94,628	283	169,685	1,924	781,648	2,848	267,294
Colorado	9,044	1,196,805	5,482	548,808	2,540	71,100	1,044	75,903	1,127	97,068	2,335	283,135	894	21,602
Connecticut	41	336	23	(D)	8	(D)	7	105	-	-	16	(D)	-	-
Delaware	9	18	9	9	-	-	-	-	-	-	-	-	9	9
Florida	363	573,147	238	102,647	52	4,417	46	8,700	-	-	174	84,979	16	4,551
Georgia	256	4,866	180	3,048	-	-	99	988	38	2,010	50	50	-	-
Hawaii	228	11,788	103	3,415	26	1,152	27	220	7	28	51	1,978	8	37
Idaho	7,902	757,753	4,660	427,512	1,634	84,589	626	40,190	1,238	167,971	2,247	125,457	97	9,305
Illinois	65	8,523	54	7,043	26	5,090	27	(D)	-	-	1	(D)	-	-
Indiana	62	4,585	30	254	-	-	16	54	-	-	14	200	-	-
Iowa	75	1,564	57	1,492	13	728	33	418	-	-	10	(D)	1	(D)
Kansas	1,100	106,984	1,025	97,241	613	50,863	259	19,478	-	-	154	13,441	55	13,459
Kentucky	66	428	60	332	45	307	15	25	-	-	-	-	-	-
Louisiana	1,416	969,325	706	489,602	82	56,566	525	397,459	-	-	100	28,761	41	6,816
Maine	22	34	14	26	9	(D)	-	-	3	6	2	(D)	-	-
Maryland	44	646	32	200	3	30	26	50	-	-	3	120	-	-
Massachusetts	61	2,091	15	99	-	-	-	-	-	-	15	99	-	-
Michigan	135	1,998	76	516	6	(D)	62	(D)	-	-	6	30	2	(D)
Minnesota	95	21,741	44	196	38	76	-	-	-	-	6	120	-	-
Mississippi	1,064	1,265,091	1,037	1,118,074	75	56,074	896	951,872	67	79,961	43	20,763	33	9,404
Missouri	918	760,732	800	598,087	81	36,076	701	527,007	5	2,210	72	30,284	14	2,510
Montana	5,350	1,144,584	1,037	216,786	168	33,541	260	30,182	30	4,372	637	143,519	91	5,172
Nebraska	7,191	1,251,630	6,553	1,118,599	5,261	829,699	724	193,762	68	20,794	669	58,584	290	15,760
Nevada	1,607	469,556	316	45,059	28	2,735	6	1,245	150	8,315	163	22,980	17	9,784
New Hampshire	36	160	17	(D)	-	-	16	16	-	-	1	(D)	-	-
New Jersey	41	2,704	26	1,022	1	(D)	25	(D)	-	-	1	(D)	2	(D)
New Mexico	7,112	289,732	2,570	92,837	249	7,414	394	9,138	311	33,826	1,707	32,496	131	9,963
New York	76	1,069	36	730	10	82	22	562	-	-	10	86	-	-
North Carolina	173	1,841	138	1,101	41	257	23	684	-	-	6	12	74	148
North Dakota	140	28,108	85	13,952	21	1,130	12	597	6	180	66	11,535	6	510
Ohio	78	695	39	184	17	138	15	21	2	(D)	7	(D)	-	-
Oklahoma	138	14,010	99	10,085	43	2,064	39	3,103	6	375	6	636	28	3,907
Oregon	3,975	571,531	867	120,096	207	15,042	277	13,911	114	28,349	449	60,016	25	2,778
Pennsylvania	141	1,206	87	680	9	210	58	366	8	20	6	78	6	6
Rhode Island	9	163	8	(D)	8	(D)	-	-	-	-	-	-	-	-
South Carolina	88	5,577	71	4,009	1	(D)	60	(D)	4	740	7	(D)	-	-
South Dakota	371	51,774	163	19,792	62	9,938	20	1,733	16	972	92	7,053	3	96
Tennessee	76	8,419	61	7,457	10	30	42	5,862	5	(D)	2	(D)	2	(D)
Texas	3,246	560,944	1,735	361,504	408	35,716	618	200,293	457	23,608	461	65,494	221	36,393
Utah	5,431	592,225	1,931	181,617	268	14,346	88	8,648	396	35,676	1,406	111,184	188	11,763
Vermont	60	177	35	71	3	3	21	48	-	-	3	12	8	8
Virginia	29	162	14	14	7	7	-	-	-	-	-	-	7	7
Washington	1,259	169,489	1,118	140,946	435	32,650	69	4,340	300	45,851	545	45,860	161	12,245
West Virginia	7	106	7	106	-	-	7	106	-	-	-	-	-	-
Wisconsin	149	8,034	93	1,099	5	5	60	170	-	-	28	924	-	-
Wyoming	3,710	1,053,673	1,905	356,645	631	101,535	361	47,439	454	52,423	901	140,307	86	14,941
Water Resources Regions														
Region 01 New England	179	2,797	87	360	28	77	30	128	3	6	34	149	-	-
Region 02 Mid-Atlantic	314	4,912	195	2,146	30	429	128	963	2	(D)	20	(D)	24	(D)
Region 03 South Atlantic-Gulf	1,039	593,083	771	117,612	121	8,266	329	15,816	48	2,806	251	85,840	93	4,884
Region 04 Great Lakes	266	3,576	147	1,167	10	(D)	118	757	-	-	9	(D)	10	(D)
Region 05 Ohio	189	4,528	113	3,388	60	3,141	23	193	13	27	19	27	-	-
Region 06 Tennessee	72	395	50	209	6	(D)	37	112	-	-	7	(D)	-	-
Region 07 Upper Mississippi	367	37,496	265	19,790	85	2,562	132	14,235	2	(D)	48	(D)	-	-
Region 08 Lower Mississippi	5,733	6,483,957	4,455	4,333,667	466	383,600	3,615	3,594,570	102	90,991	426	185,712	202	78,794
Region 09 Souris-Red-Rainy	50	17,431	26	113	19	57	-	-	-	-	7	56	-	-
Region 10 Missouri	17,663	3,491,310	10,951	1,898,815	6,755	1,033,211	1,748	312,435	989	122,629	2,448	390,051	514	40,489
Region 11 Arkansas-White-Red	3,226	1,135,891	2,145	646,472	950	83,463	641	345,444	374	29,596	517	129,048	379	58,921
Region 12 Texas-Gulf	2,594	474,752	1,402	309,775	363	30,184	584	166,151	235	20,766	393	60,817	163	31,857
Region 13 Rio Grande	7,223	366,462	2,415	75,182	18	1,936	278	1,112	465	35,857	1,723	25,583	125	10,694
Region 14 Upper Colorado	7,297	1,035,080	5,032	346,909	2,209	46,127	954	58,383	447	27,373	2,593	201,016	689	14,010
Region 15 Lower Colorado	3,440	797,472	1,172	410,022	153	6,647	62	19,881	618	331,151	369	46,540	60	5,803
Region 16 Great Basin	5,504	871,799	1,188	162,891	101	7,969	68	6,705	277	38,403	890	94,928	176	14,886
Region 17 Pacific Northwest	14,308	1,573,577	6,843	705,451	2,280	133,281	972	58,441	1,706	241,829	3,381	243,612	286	28,288
Region 18 California	15,456	4,598,309	5,589	1,448,005	327	147,534	1,695	94,628	285	170,885	1,927	767,664	2,848	267,294
Region 19 Alaska	11	69	6	64	4	(D)	-	-	-	-	2	(D)	-	-
Region 20 Hawaii	228	11,788	103	3,415	26	1,152	27	220	7	28	51	1,978	8	37

See footnote(s) at end of table.

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Table 31. **Land Irrigated in the Open with Gravity Irrigation by Field Water Delivery System: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Controlled flooding (between borders or within rows)											
			Above-ground pipe (except poly tubing)		Poly tubing (or other single-year use, lay-flat tubing)		Open surface ditches				Underground pipe	
							Lined		Unlined			
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	36,603	8,487,054	3,272	635,226	2,682	486,874	4,985	979,114	21,959	4,675,830	8,654	1,710,010
2008 [1]	37,893	8,697,854	3,439	443,737	2,588	520,887	6,176	1,481,482	22,840	4,657,921	6,450	1,593,827
2013 DATA												
Alabama	12	644	4	(D)	2	(D)	-	-	6	420	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,911	342,173	170	4,113	25	1,390	1,258	275,645	519	49,235	47	11,790
Arkansas	2,039	1,632,045	323	257,211	526	257,961	89	66,466	560	345,439	1,084	704,968
California	9,256	2,535,010	439	69,080	375	10,470	562	309,231	4,060	1,540,798	5,719	605,431
Colorado	3,445	392,259	253	19,695	204	14,446	159	24,435	3,009	323,001	114	10,682
Connecticut	11	(D)	8	128	-	-	-	-	-	-	3	(D)
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	65	404,884	-	-	5	7,470	-	-	51	397,405	9	9
Georgia	38	606	-	-	-	-	38	606	-	-	-	-
Hawaii	83	717	7	(D)	1	(D)	7	14	66	638	2	(D)
Idaho	1,853	195,984	61	(D)	19	(D)	18	8,124	1,722	176,591	48	6,290
Illinois	4	1,075	3	(D)	-	-	-	-	-	-	1	(D)
Indiana	15	4,234	-	-	-	-	9	3,570	6	664	-	-
Iowa	6	60	-	-	6	60	-	-	-	-	-	-
Kansas	115	9,727	47	(D)	61	405	1	(D)	6	702	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	808	467,405	130	48,995	37	10,733	24	11,808	288	147,098	427	248,771
Maine	8	8	-	-	-	-	-	-	-	-	8	8
Maryland	3	30	3	30	-	-	-	-	-	-	-	-
Massachusetts	20	1,452	-	-	-	-	-	-	20	1,452	-	-
Michigan	17	1,212	11	606	6	6	-	-	-	-	5	600
Minnesota	30	(D)	2	(D)	13	3,600	-	-	14	4,472	1	(D)
Mississippi	257	142,182	58	32,900	108	61,981	9	3,800	64	29,629	32	13,872
Missouri	278	136,446	60	41,412	93	37,651	29	14,957	115	34,060	38	8,366
Montana	3,047	563,977	364	34,070	92	14,814	180	32,047	2,631	477,141	35	5,905
Nebraska	738	131,831	338	58,375	28	29,400	-	-	372	44,056	-	-
Nevada	1,235	268,311	33	13,256	21	3,210	410	42,217	879	177,608	102	32,020
New Hampshire	1	(D)	-	-	-	-	-	-	1	(D)	-	-
New Jersey	7	913	-	-	-	-	-	-	5	(D)	2	(D)
New Mexico	4,005	141,938	92	2,372	585	6,963	945	60,189	2,240	59,770	613	12,644
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	2	(D)	-	-	-	-	-	-	-	-	2	(D)
North Dakota	85	(D)	5	40	16	992	-	-	66	11,703	5	(D)
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	50	(D)	8	1,760	-	-	11	(D)	37	669	2	(D)
Oregon	1,397	226,811	243	4,393	37	3,555	10	11,059	1,245	190,059	34	17,745
Pennsylvania	12	60	-	-	-	-	6	30	6	30	-	-
Rhode Island	1	(D)	-	-	-	-	-	-	1	(D)	-	-
South Carolina	12	880	2	(D)	-	-	-	-	9	(D)	1	(D)
South Dakota	187	26,204	59	5,230	14	2,120	39	1,925	115	16,487	7	442
Tennessee	3	(D)	2	(D)	-	-	1	(D)	-	-	-	-
Texas	1,434	157,016	21	4,253	219	6,170	758	48,004	482	80,212	119	18,377
Utah	2,545	265,537	246	10,700	3	1,080	331	31,170	2,084	217,374	161	5,213
Vermont	3	6	3	6	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	148	8,678	19	(D)	2	(D)	3	360	135	6,269	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	26	3,115	1	(D)	2	(D)	4	(D)	23	2,406	7	325
Wyoming	1,391	393,237	257	17,814	182	8,776	84	25,079	1,122	339,634	26	1,934
Water Resources Regions												
Region 01 New England	41	1,750	8	128	-	-	-	-	22	(D)	11	(D)
Region 02 Mid-Atlantic	22	(D)	3	30	-	-	6	(D)	11	413	2	(D)
Region 03 South Atlantic-Gulf	125	406,990	6	(D)	7	7,682	38	606	62	398,066	12	(D)
Region 04 Great Lakes	24	(D)	14	(D)	6	(D)	4	108	4	(D)	9	648
Region 05 Ohio	7	610	2	(D)	-	-	5	(D)	-	-	-	-
Region 06 Tennessee	4	64	-	-	-	-	-	-	4	64	-	-
Region 07 Upper Mississippi	54	13,426	4	446	15	3,760	4	3,060	30	5,138	4	1,022
Region 08 Lower Mississippi	2,879	2,003,392	495	325,178	670	310,955	108	69,195	823	440,792	1,358	857,272
Region 09 Souris-Red-Rainy	22	(D)	2	(D)	6	372	-	-	13	3,492	1	(D)
Region 10 Missouri	5,862	1,011,017	1,071	124,133	324	54,988	427	66,236	4,568	757,095	70	8,565
Region 11 Arkansas-White-Red	1,057	427,911	110	60,180	199	63,176	52	34,546	640	147,762	284	122,247
Region 12 Texas-Gulf	1,019	126,293	20	3,774	219	6,170	310	24,587	486	80,342	155	11,420
Region 13 Rio Grande	4,403	214,939	59	2,599	430	2,991	1,363	82,380	2,387	100,680	608	26,289
Region 14 Upper Colorado	2,220	401,816	375	13,274	323	13,820	81	19,656	1,643	353,994	31	1,072
Region 15 Lower Colorado	2,057	354,648	191	4,407	25	1,390	1,361	278,026	554	55,355	78	15,470
Region 16 Great Basin	3,234	500,736	94	16,531	24	4,290	626	71,386	2,700	378,414	224	30,115
Region 17 Pacific Northwest	4,058	433,969	369	12,036	55	5,940	27	10,311	3,733	389,330	60	16,352
Region 18 California	9,432	2,577,938	442	69,254	378	11,286	566	318,463	4,213	1,562,571	5,745	616,364
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	83	717	7	(D)	1	(D)	7	14	66	638	2	(D)

See footnote(s) at end of table.

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Table 31. **Land Irrigated in the Open with Gravity Irrigation by Field Water Delivery System: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Uncontrolled flooding		Other gravity systems [2]	
	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	11,765	1,801,259	5,926	730,918
2008 [1]	11,926	1,901,738	8,044	688,023
2013 DATA				
Alabama	14	280	8	12
Alaska	-	-	5	5
Arizona	223	8,976	283	10,222
Arkansas	128	87,917	136	34,913
California	883	252,810	1,389	291,417
Colorado	1,328	185,350	374	70,388
Connecticut	-	-	7	7
Delaware	-	-	9	9
Florida	64	23,221	49	42,395
Georgia	36	180	40	1,032
Hawaii	19	4,156	45	3,500
Idaho	1,926	116,359	149	17,898
Illinois	-	-	10	405
Indiana	23	92	5	5
Iowa	-	-	12	12
Kansas	-	-	8	16
Kentucky	6	6	12	90
Louisiana	47	7,177	28	5,141
Maine	-	-	-	-
Maryland	-	-	9	416
Massachusetts	7	280	26	260
Michigan	-	-	48	270
Minnesota	2	(D)	19	19
Mississippi	5	(D)	1	(D)
Missouri	14	13,542	69	12,657
Montana	1,489	311,984	539	51,837
Nebraska	15	1,200	-	-
Nevada	357	142,542	85	13,644
New Hampshire	-	-	19	137
New Jersey	2	(D)	9	(D)
New Mexico	1,253	47,849	78	7,108
New York	-	-	40	339
North Carolina	6	600	34	(D)
North Dakota	3	(D)	7	266
Ohio	-	-	39	511
Oklahoma	2	(D)	-	-
Oregon	1,527	185,125	783	39,499
Pennsylvania	-	-	48	466
Rhode Island	-	-	-	-
South Carolina	4	680	8	8
South Dakota	67	4,479	6	1,299
Tennessee	4	40	16	(D)
Texas	230	21,766	205	20,658
Utah	1,212	104,621	925	40,450
Vermont	-	-	33	100
Virginia	-	-	15	148
Washington	62	6,440	61	13,425
West Virginia	-	-	-	-
Wisconsin	-	-	39	3,820
Wyoming	807	258,568	196	45,223
Water Resources Regions				
Region 01 New England	7	280	55	407
Region 02 Mid-Atlantic	2	(D)	113	1,403
Region 03 South Atlantic-Gulf	120	24,941	132	43,540
Region 04 Great Lakes	-	-	109	(D)
Region 05 Ohio	12	48	69	482
Region 06 Tennessee	13	61	16	61
Region 07 Upper Mississippi	11	44	60	4,236
Region 08 Lower Mississippi	139	100,916	154	45,982
Region 09 Souris-Red-Rainy	2	(D)	-	-
Region 10 Missouri	1,890	509,814	703	71,664
Region 11 Arkansas-White-Red	450	20,775	318	40,733
Region 12 Texas-Gulf	274	(D)	195	(D)
Region 13 Rio Grande	1,165	65,093	82	11,248
Region 14 Upper Colorado	1,079	214,944	300	71,411
Region 15 Lower Colorado	553	21,292	343	11,510
Region 16 Great Basin	1,246	174,860	723	33,312
Region 17 Pacific Northwest	3,841	353,385	1,096	80,772
Region 18 California	942	277,795	1,408	294,571
Region 19 Alaska	-	-	5	5
Region 20 Hawaii	19	4,156	45	3,500

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.
[2] Subirrigation data were collected as a separate item in 2008 but were collected under “Other gravity systems” for 2013. For the 2008 data, subirrigation data were added to "other gravity systems" for comparability.

Table 32. **Estimated Quantity of Water Applied in the Open Using Only One Method of Distribution: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Water applied by all methods			Only sprinkler systems			Only gravity flow systems [1]			Only drip, trickle, low-flow, or micro sprinkler systems		
	Acres irrigated [2]	Acre-feet applied	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	55,283,340	88,455,968	1.6	81,745	24,068,728	1.2	53,824	13,296,785	1.9	37,877	2,489,767	1.9
2008 [3]	54,929,915	91,235,036	1.7	78,945	20,226,970	1.2	60,018	13,622,819	2.2	28,815	2,099,436	2.2
2013 DATA												
Alabama	100,605	44,604	0.4	445	92,100	0.4	27	1,384	0.3	316	4,378	0.5
Alaska	968	457	0.5	45	489	0.3	4	62	0.3	26	56	0.6
Arizona	851,407	3,755,876	4.4	854	134,339	3.5	2,368	570,305	4.1	247	15,122	2.9
Arkansas	4,949,965	6,454,191	1.3	595	338,399	0.9	2,360	3,069,585	1.4	173	7,077	0.3
California	7,543,928	23,488,939	3.1	6,657	485,149	2.5	9,100	2,285,786	3.2	18,587	1,395,290	2.5
Colorado	2,309,178	4,135,873	1.8	3,083	1,120,236	1.5	6,570	764,112	1.9	50	446	1.4
Connecticut	4,557	3,999	0.9	202	1,547	1.6	13	51	0.3	145	1,887	0.4
Delaware	114,738	58,423	0.5	260	110,195	0.5	-	-	-	63	1,121	0.4
Florida	1,356,561	1,573,095	1.2	2,713	250,043	0.8	177	470,642	1.4	3,032	506,911	0.9
Georgia	1,196,373	608,568	0.5	1,986	991,076	0.5	6	2,100	0.4	737	98,599	0.6
Hawaii	75,770	249,449	3.3	447	3,898	2.3	98	649	1.9	748	12,192	2.3
Idaho	3,511,751	6,424,081	1.8	5,922	2,488,172	1.6	5,665	414,708	1.9	83	3,251	2.0
Illinois	541,281	367,207	0.7	1,168	566,748	0.6	7	1,760	(D)	206	3,426	0.4
Indiana	454,346	234,935	0.5	1,129	461,914	0.5	19	786	0.6	344	2,423	0.5
Iowa	175,514	92,573	0.5	602	167,091	0.5	20	245	0.1	194	743	0.6
Kansas	2,851,085	3,432,397	1.2	3,635	2,264,248	1.2	267	27,316	1.3	181	2,493	1.0
Kentucky	50,663	20,335	0.4	310	45,188	0.4	24	335	0.4	450	7,274	0.5
Louisiana	1,096,228	1,454,716	1.3	469	90,526	0.8	1,028	740,159	1.4	93	2,126	0.3
Maine	20,290	6,959	0.3	278	19,742	0.3	-	-	-	188	640	0.6
Maryland	100,530	47,592	0.5	353	87,973	0.4	8	256	0.5	209	4,648	0.6
Massachusetts	26,800	36,195	1.4	631	15,633	1.8	6	987	(D)	283	1,829	0.9
Michigan	586,466	311,599	0.5	2,017	561,384	0.5	6	6	1.0	648	20,574	0.6
Minnesota	516,063	322,879	0.6	1,552	516,776	0.6	30	20,926	1.1	149	1,047	0.4
Mississippi	1,701,494	1,768,937	1.0	524	188,474	0.7	550	756,510	1.2	111	16,784	1.1
Missouri	1,235,005	1,193,127	1.0	823	377,156	0.7	539	490,511	1.0	549	12,462	1.2
Montana	1,872,286	2,502,345	1.3	1,722	410,310	1.1	3,902	796,899	1.3	113	455	0.5
Nebraska	8,297,457	8,069,039	1.0	7,685	4,155,500	0.9	2,187	334,216	1.2	502	12,761	0.9
Nevada	689,953	1,913,755	2.8	487	133,911	3.3	1,252	342,206	2.2	55	216	3.7
New Hampshire	3,773	1,282	0.3	108	785	0.3	3	9	2.0	120	304	0.9
New Jersey	80,071	48,086	0.6	469	43,559	0.4	4	90	1.0	317	8,503	0.5
New Mexico	694,571	1,311,363	1.9	1,027	329,558	1.5	6,072	217,073	1.7	372	11,347	1.6
New York	47,580	21,300	0.4	558	25,680	0.3	19	695	0.3	450	6,618	0.4
North Carolina	135,707	53,351	0.4	1,177	122,330	0.3	48	968	0.9	639	10,383	0.7
North Dakota	213,686	148,332	0.7	353	174,615	0.7	76	12,140	0.9	20	34	0.6
Ohio	40,854	25,160	0.6	346	23,114	0.6	27	101	0.5	475	3,822	0.4
Oklahoma	426,296	522,118	1.2	1,087	399,622	1.2	25	2,168	1.2	307	5,932	0.8
Oregon	1,553,034	2,970,591	1.9	6,098	787,128	1.5	2,095	321,552	1.8	861	50,648	1.9
Pennsylvania	22,523	9,431	0.4	409	7,991	0.3	21	265	0.1	1,298	9,407	0.4
Rhode Island	2,996	2,198	0.7	81	2,193	0.7	-	-	-	116	425	0.9
South Carolina	133,816	77,234	0.6	555	96,409	0.5	11	790	0.1	215	21,235	0.7
South Dakota	369,802	291,815	0.8	807	290,262	0.7	219	30,997	1.3	17	33	0.5
Tennessee	145,965	57,136	0.4	461	119,105	0.3	25	302	0.8	254	5,890	0.5
Texas	4,489,837	5,799,584	1.3	6,944	3,340,905	1.2	1,943	419,745	1.6	1,849	80,110	1.0
Utah	1,124,729	2,378,450	2.1	4,454	424,468	2.0	3,523	326,143	1.9	189	723	1.9
Vermont	2,127	911	0.4	145	1,076	0.3	17	55	0.4	104	434	0.5
Virginia	49,141	25,395	0.5	384	38,788	0.4	-	-	-	491	6,524	0.6
Washington	1,623,123	3,662,524	2.3	6,991	1,080,189	2.0	755	83,613	2.2	1,004	129,018	1.9
West Virginia	1,319	686	0.5	81	497	0.4	7	106	0.1	85	585	0.5
Wisconsin	472,856	387,148	0.8	1,460	485,400	0.8	19	414	1.2	203	1,552	0.7
Wyoming	1,418,272	2,089,728	1.5	1,156	196,837	1.5	2,682	787,057	1.4	9	9	1.6
Water Resources Regions												
Region 01 New England	58,842	50,899	0.9	1,352	40,080	1.0	22	1,047	(D)	891	5,142	0.7
Region 02 Mid-Atlantic	388,390	196,197	0.5	2,075	297,382	0.4	50	565	0.5	2,323	32,805	0.5
Region 03 South Atlantic-Gulf	2,935,603	2,369,716	0.8	7,061	1,552,307	0.5	269	476,600	1.4	4,964	641,510	0.9
Region 04 Great Lakes	817,946	448,422	0.5	3,084	793,252	0.5	30	668	0.4	1,332	27,143	0.5
Region 05 Ohio	354,602	183,456	0.5	1,465	345,657	0.5	79	1,326	0.3	1,339	13,462	0.5
Region 06 Tennessee	57,459	26,091	0.5	396	53,557	0.4	18	135	(D)	262	6,314	0.6
Region 07 Upper Mississippi	1,533,177	1,061,086	0.7	4,261	1,547,899	0.6	75	21,015	0.7	723	5,756	0.4
Region 08 Lower Mississippi	8,013,416	9,628,711	1.2	1,433	861,516	0.8	3,901	4,486,281	1.3	284	28,808	1.0
Region 09 Souris-Red-Rainy	175,021	118,621	0.7	352	165,568	0.6	27	16,174	1.2	18	37	0.5
Region 10 Missouri	13,598,476	14,890,524	1.1	13,940	6,500,773	0.9	9,152	1,855,203	1.4	1,024	15,387	1.0
Region 11 Arkansas-White-Red	5,227,723	6,952,945	1.3	5,866	3,756,759	1.3	2,134	726,296	1.3	746	15,112	0.8
Region 12 Texas-Gulf	3,027,926	3,715,944	1.2	5,193	2,014,771	1.1	1,558	379,162	1.6	1,667	79,754	1.0
Region 13 Rio Grande	802,574	1,587,805	2.0	1,372	372,664	1.7	6,039	234,530	1.8	372	11,347	1.6
Region 14 Upper Colorado	1,321,937	2,638,943	2.0	2,700	234,770	1.6	5,366	722,293	1.8	30	240	0.9
Region 15 Lower Colorado	915,691	3,954,057	4.3	1,144	151,436	3.3	2,680	605,541	4.1	247	15,122	2.9
Region 16 Great Basin	1,557,939	3,628,952	2.3	3,526	525,705	2.2	3,852	568,231	2.1	244	939	2.3
Region 17 Pacific Northwest	6,723,954	13,002,330	1.9	19,068	4,301,931	1.7	9,207	880,903	1.8	2,047	182,751	1.9
Region 18 California	7,695,926	23,751,363	3.1	6,965	548,314	2.4	9,263	2,320,104	3.2	18,590	1,395,890	2.5
Region 19 Alaska	968	457	0.5	45	489	0.3	4	62	0.3	26	56	0.6
Region 20 Hawaii	75,770	249,449	3.3	447	3,898	2.3	98	649	1.9	748	12,192	2.3

[1] The subirrigation category was dropped in 2013 and is reported as Other Gravity Systems.
[2] Acres in the open was calculated as total acres minus square feet under protection converted to acres.
[3] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 33. **Estimated Quantity of Water Applied in the Open Using Only Sprinkler Systems to Distribute Water: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Only center pivot systems [1]											
	All pressures			Only low pressure under 30 psi			Only medium pressure 30 to 59 psi			Only high pressure 60 psi or more		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	32,837	17,440,235	1.1	14,601	7,822,856	1.2	13,743	6,535,074	1.1	2,203	712,392	0.9
2008 [2]	28,450	14,541,017	1.1	13,988	7,395,187	1.1	10,831	5,113,524	1.1	1,966	583,140	1.1
2013 DATA												
Alabama	202	68,581	0.4	45	15,753	0.5	135	41,222	0.4	9	2,292	(D)
Alaska	1	(D)	(D)	1	(D)	(D)	-	-	-	-	-	-
Arizona	327	81,725	3.3	76	59,276	3.4	242	16,359	3.3	7	2,590	6.0
Arkansas	181	112,664	0.8	44	28,707	1.0	125	75,868	0.7	12	8,089	0.8
California	611	25,271	1.9	513	16,050	2.7	10	464	2.4	83	8,157	0.3
Colorado	1,838	884,688	1.6	869	380,058	1.5	832	389,667	1.8	1	(D)	(D)
Connecticut	38	94	(D)	14	14	(D)	14	14	2.0	10	66	(D)
Delaware	167	83,264	0.5	35	13,184	0.5	111	46,037	0.6	2	(D)	(D)
Florida	835	91,658	0.8	363	26,603	0.6	290	40,046	0.9	131	12,108	1.4
Georgia	1,252	799,309	0.5	293	136,209	0.5	764	422,713	0.5	48	25,065	0.5
Hawaii	97	581	1.6	25	(D)	1.7	41	363	1.7	-	-	-
Idaho	872	911,885	1.6	228	238,099	1.6	442	434,862	1.8	121	66,956	1.1
Illinois	837	451,958	0.7	276	142,400	0.6	437	228,285	0.7	55	15,581	0.7
Indiana	781	357,505	0.5	242	92,705	0.5	404	195,642	0.5	44	13,029	0.6
Iowa	421	149,265	0.5	152	54,737	0.5	215	77,712	0.5	30	4,945	0.6
Kansas	3,365	2,203,063	1.2	2,236	1,462,206	1.3	947	547,440	1.1	4	400	0.6
Kentucky	97	36,950	0.3	27	4,865	0.5	58	30,371	0.3	4	1,000	0.3
Louisiana	118	47,334	0.7	70	23,262	0.7	21	10,656	0.9	11	1,318	0.9
Maine	43	2,344	0.5	25	(D)	(D)	5	(D)	0.6	13	(D)	(D)
Maryland	216	70,380	0.5	68	18,791	0.4	116	34,929	0.5	9	1,553	0.3
Massachusetts	83	1,348	1.2	7	42	1.2	69	1,285	1.2	7	21	1.7
Michigan	541	297,662	0.5	112	73,847	0.6	297	147,043	0.5	72	30,508	0.4
Minnesota	1,126	433,327	0.6	414	142,396	0.6	501	172,434	0.6	74	18,273	0.4
Mississippi	220	115,637	0.7	39	27,876	0.8	135	57,504	0.7	38	16,975	0.6
Missouri	490	278,463	0.7	232	119,283	0.6	190	107,486	1.0	37	10,730	0.5
Montana	361	139,167	1.0	72	36,378	0.9	191	74,829	1.1	86	8,040	1.4
Nebraska	7,267	3,965,851	0.9	1,875	972,094	0.9	4,043	2,000,785	0.9	766	309,089	0.7
Nevada	162	97,876	3.3	84	40,217	3.6	72	36,050	3.5	3	1,380	4.0
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	77	7,453	0.4	43	4,354	0.4	29	2,510	0.3	4	(D)	(D)
New Mexico	646	281,868	1.4	577	241,437	1.4	46	13,476	2.1	-	-	-
New York	42	9,376	0.4	19	7,764	0.4	14	1,242	0.2	-	-	-
North Carolina	260	58,532	0.3	100	20,019	0.3	119	23,305	0.4	17	7,000	0.4
North Dakota	304	168,343	0.7	121	65,038	0.6	150	82,872	0.7	19	9,900	0.6
Ohio	43	8,464	0.4	18	2,596	0.3	18	2,876	0.5	5	1,754	(D)
Oklahoma	722	369,877	1.2	517	240,371	1.2	166	92,842	1.1	9	5,704	1.9
Oregon	657	279,114	1.8	286	81,848	1.6	335	128,652	2.1	21	10,125	1.5
Pennsylvania	20	2,262	0.2	1	(D)	(D)	13	(D)	(D)	5	1,278	0.2
Rhode Island	5	222	(D)	1	(D)	(D)	4	(D)	(D)	-	-	-
South Carolina	243	62,175	0.5	44	17,582	0.4	111	31,800	0.5	57	5,500	0.5
South Dakota	671	274,097	0.7	204	66,067	0.6	333	166,450	0.7	63	14,141	0.9
Tennessee	240	95,517	0.3	67	23,328	0.3	135	56,490	0.3	13	2,761	0.1
Texas	4,484	3,003,534	1.2	3,532	2,543,450	1.2	742	298,083	1.3	56	2,240	1.0
Utah	294	85,825	2.7	109	25,775	2.5	136	42,260	3.1	44	8,030	1.9
Vermont	5	7	0.7	-	-	-	3	(D)	(D)	2	(D)	(D)
Virginia	81	19,148	0.4	25	4,062	0.5	54	13,886	0.4	-	-	-
Washington	412	536,836	2.2	140	228,596	2.1	167	176,917	2.1	57	44,144	3.0
West Virginia	13	(D)	0.4	3	3	1.0	6	6	2.0	4	(D)	0.4
Wisconsin	583	336,942	0.7	81	42,856	0.7	245	158,811	0.8	150	36,192	0.6
Wyoming	486	132,242	1.3	276	81,538	1.3	210	50,704	1.3	-	-	-
Water Resources Regions												
Region 01 New England	172	4,011	0.8	47	271	0.9	95	(D)	0.9	30	(D)	0.3
Region 02 Mid-Atlantic	565	183,510	0.5	179	41,689	0.4	316	97,653	0.5	20	3,378	0.3
Region 03 South Atlantic-Gulf	2,881	1,080,195	0.5	859	212,183	0.5	1,483	560,551	0.5	275	57,023	0.7
Region 04 Great Lakes	913	471,790	0.5	192	102,974	0.6	433	218,610	0.5	147	44,819	0.5
Region 05 Ohio	605	241,031	0.5	166	70,102	0.5	353	137,924	0.5	34	6,762	0.4
Region 06 Tennessee	103	(D)	(D)	20	8,575	(D)	69	21,722	0.5	10	3,797	0.4
Region 07 Upper Mississippi	2,738	1,227,153	0.6	949	344,898	0.6	1,214	567,555	0.7	280	73,939	0.6
Region 08 Lower Mississippi	676	460,863	0.7	250	162,838	0.7	314	220,792	0.8	49	22,282	0.7
Region 09 Souris-Red-Rainy	286	152,709	0.6	118	67,564	0.6	135	65,700	0.7	14	4,310	(D)
Region 10 Missouri	11,200	5,904,828	0.9	3,706	1,847,984	1.0	5,807	2,820,923	1.0	857	339,759	0.8
Region 11 Arkansas-White-Red	4,763	3,580,411	1.3	3,059	2,568,116	1.3	1,464	753,324	1.2	12	6,259	1.7
Region 12 Texas-Gulf	3,160	1,773,453	1.1	2,558	1,529,701	1.1	433	138,479	1.2	56	(D)	1.0
Region 13 Rio Grande	836	258,314	1.8	690	145,294	1.8	109	82,820	1.9	1	(D)	(D)
Region 14 Upper Colorado	431	46,736	1.8	349	29,976	1.5	74	(D)	3.2	3	2,250	0.7
Region 15 Lower Colorado	373	88,140	3.3	82	61,496	3.4	245	16,854	3.4	44	6,290	3.7
Region 16 Great Basin	439	227,271	2.6	213	109,749	2.3	211	84,073	3.2	7	3,460	3.4
Region 17 Pacific Northwest	1,944	1,658,515	1.9	622	496,686	1.9	909	726,128	1.9	269	118,065	1.8
Region 18 California	654	43,126	2.0	516	22,350	2.5	38	7,219	2.9	95	12,957	0.8
Region 19 Alaska	1	(D)	(D)	1	(D)	(D)	-	-	-	-	-	-
Region 20 Hawaii	97	581	1.6	25	(D)	1.7	41	363	1.7	-	-	-

See footnote(s) at end of table.

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Table 33. **Estimated Quantity of Water Applied in the Open Using Only Sprinkler Systems to Distribute Water: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Only linear move tower systems [1]								
	All pressures			Only low pressure under 30 psi			Only medium to high pressure 30 psi or more		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	653	61,385	1.7	181	24,340	2.1	466	37,009	1.4
2008 [2]	592	59,622	1.0	144	38,103	1.1	430	18,610	0.9
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-
Arkansas	30	10,610	0.8	10	5,250	1.1	20	5,360	0.6
California	54	13,558	2.8	52	(D)	(D)	2	(D)	(D)
Colorado	66	462	1.0	-	-	-	66	462	1.0
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	26	2,542	1.0	14	130	0.7	12	2,412	1.0
Georgia	7	7	1.0	-	-	-	7	7	1.0
Hawaii	10	275	1.8	-	-	-	10	275	1.8
Idaho	16	2,560	2.5	-	-	-	16	2,560	2.5
Illinois	3	850	0.7	3	850	0.7	-	-	-
Indiana	23	312	0.4	11	264	0.3	12	48	1.0
Iowa	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	19	54	1.0	14	49	1.0	5	5	1.0
Louisiana	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-
Maryland	8	434	0.1	-	-	-	8	434	0.1
Massachusetts	-	-	-	-	-	-	-	-	-
Michigan	6	30	0.8	6	30	0.8	-	-	-
Minnesota	3	1,905	0.5	3	1,905	0.5	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-
Missouri	8	320	0.9	-	-	-	8	320	0.9
Montana	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	1	(D)	(D)	-	-	-	1	(D)	(D)
New Mexico	3	1,602	4.8	3	1,602	4.8	-	-	-
New York	-	-	-	-	-	-	-	-	-
North Carolina	1	(D)	(D)	-	-	-	1	(D)	(D)
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	2	(D)	(D)	2	(D)	(D)	-	-	-
Oklahoma	19	1,020	1.0	-	-	-	19	1,020	1.0
Oregon	18	796	1.3	5	200	(D)	7	560	(D)
Pennsylvania	25	25	1.0	25	25	1.0	-	-	-
Rhode Island	12	12	2.0	12	12	2.0	-	-	-
South Carolina	4	1,044	0.5	-	-	-	4	1,044	0.5
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	13	1,042	0.5	10	10	1.0	3	1,032	0.5
Texas	9	3,720	(D)	1	(D)	(D)	8	(D)	(D)
Utah	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	9	1,230	0.5	-	-	-	9	1,230	0.5
Washington	168	1,344	0.6	-	-	-	168	1,344	0.6
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	25	1,091	1.5	10	55	0.2	15	1,036	1.6
Wyoming	65	11,960	2.2	-	-	-	65	11,960	2.2
Water Resources Regions									
Region 01 New England	12	12	2.0	12	12	2.0	-	-	-
Region 02 Mid-Atlantic	16	2,004	0.3	-	-	-	16	2,004	0.3
Region 03 South Atlantic-Gulf	40	5,713	0.8	14	130	0.7	26	5,583	0.8
Region 04 Great Lakes	33	175	0.3	33	175	0.3	-	-	-
Region 05 Ohio	31	102	1.0	14	49	1.0	17	53	1.0
Region 06 Tennessee	7	1,021	0.5	5	(D)	(D)	2	(D)	(D)
Region 07 Upper Mississippi	42	4,110	0.8	27	3,074	0.5	15	1,036	1.6
Region 08 Lower Mississippi	29	6,571	0.9	15	5,255	1.1	14	1,316	0.2
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	87	12,482	2.1	-	-	-	87	12,482	2.1
Region 11 Arkansas-White-Red	26	5,080	0.8	-	-	-	26	5,080	0.8
Region 12 Texas-Gulf	9	3,720	1.2	1	(D)	(D)	8	(D)	(D)
Region 13 Rio Grande	3	1,602	4.8	3	1,602	4.8	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	254	4,960	1.7	5	200	(D)	243	4,724	(D)
Region 18 California	54	13,558	2.8	52	(D)	(D)	2	(D)	(D)
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	10	275	1.8	-	-	-	10	275	1.8

See footnote(s) at end of table.

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Table 33. **Estimated Quantity of Water Applied in the Open Using Only Sprinkler Systems to Distribute Water: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Only solid set and permanent systems [1]								
	All pressures			Only low pressure under 30 psi			Only medium to high pressure 30 psi or more		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	9,610	463,717	2.1	2,466	110,916	2.0	6,831	298,699	2.3
2008 [2]	13,276	549,546	2.2	2,762	80,268	2.1	10,499	451,220	2.2
2013 DATA									
Alabama	50	1,929	0.6	-	-	-	46	1,881	0.6
Alaska	5	5	1.0	-	-	-	5	5	1.0
Arizona	33	14,780	3.5	20	800	1.3	13	13,980	3.7
Arkansas	36	2,744	1.1	6	6	1.0	30	2,738	1.1
California	2,952	197,579	2.6	1,090	54,056	2.5	1,735	112,885	2.8
Colorado	199	1,089	1.2	-	-	-	199	1,089	1.2
Connecticut	22	1,186	(D)	9	642	1.6	13	544	(D)
Delaware	-	-	-	-	-	-	-	-	-
Florida	828	22,905	0.9	255	13,111	1.0	552	9,008	0.9
Georgia	160	11,451	0.4	89	1,882	0.4	67	(D)	0.7
Hawaii	70	593	0.8	17	161	0.9	53	432	0.8
Idaho	261	10,349	0.6	251	(D)	(D)	10	(D)	(D)
Illinois	31	1,264	0.5	-	-	-	31	1,264	0.5
Indiana	8	612	0.7	-	-	-	8	612	0.7
Iowa	17	303	0.9	-	-	-	17	303	0.9
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	38	690	0.6	6	6	1.0	32	684	0.6
Louisiana	110	1,341	2.4	11	133	0.8	99	1,208	2.6
Maine	52	(D)	0.3	-	-	-	52	(D)	0.3
Maryland	10	124	0.4	4	112	0.3	6	12	1.0
Massachusetts	305	(D)	2.2	77	603	1.2	228	(D)	2.3
Michigan	289	13,094	1.1	13	(D)	0.8	270	12,346	1.2
Minnesota	35	120	0.3	-	-	-	35	120	0.3
Mississippi	49	1,881	0.7	-	-	-	49	1,881	0.7
Missouri	15	1,086	0.7	-	-	-	15	1,086	0.7
Montana	3	48	1.0	-	-	-	3	48	1.0
Nebraska	8	8	1.0	-	-	-	8	8	1.0
Nevada	3	126	4.0	-	-	-	3	126	4.0
New Hampshire	2	(D)	(D)	-	-	-	2	(D)	(D)
New Jersey	67	3,355	1.5	16	434	1.3	51	2,921	1.5
New Mexico	-	-	-	-	-	-	-	-	-
New York	49	784	0.3	10	10	1.5	33	714	0.2
North Carolina	202	6,257	0.7	65	2,348	0.6	124	3,883	0.8
North Dakota	6	60	0.4	-	-	-	6	60	0.4
Ohio	31	242	2.8	15	136	(D)	16	106	(D)
Oklahoma	2	(D)	(D)	-	-	-	2	(D)	(D)
Oregon	879	30,685	1.2	268	(D)	(D)	479	(D)	(D)
Pennsylvania	20	755	0.5	-	-	-	20	755	0.5
Rhode Island	7	68	0.6	4	32	0.3	3	36	0.9
South Carolina	50	771	0.9	25	107	1.4	25	664	0.9
South Dakota	1	(D)	(D)	-	-	-	1	(D)	(D)
Tennessee	51	338	0.7	23	60	0.6	28	278	0.7
Texas	227	1,152	0.5	15	15	1.0	212	1,137	0.5
Utah	132	9,472	1.9	8	(D)	(D)	124	(D)	(D)
Vermont	8	8	1.0	8	8	1.0	-	-	-
Virginia	76	(D)	(D)	1	(D)	(D)	75	121	1.1
Washington	1,928	79,015	2.6	151	18,151	2.7	1,777	60,864	2.5
West Virginia	8	50	0.9	-	-	-	8	50	0.9
Wisconsin	275	21,236	2.6	9	269	0.6	266	20,967	2.6
Wyoming	-	-	-	-	-	-	-	-	-
Water Resources Regions									
Region 01 New England	388	22,988	1.3	90	1,277	1.4	298	21,711	1.3
Region 02 Mid-Atlantic	187	4,842	1.1	25	(D)	1.1	156	4,231	1.1
Region 03 South Atlantic-Gulf	1,317	46,493	0.7	429	19,124	0.9	850	(D)	0.8
Region 04 Great Lakes	363	14,329	1.1	35	751	1.0	322	13,500	1.1
Region 05 Ohio	112	1,408	0.9	23	85	2.7	89	1,323	0.8
Region 06 Tennessee	53	383	0.5	21	58	(D)	28	277	(D)
Region 07 Upper Mississippi	311	22,265	2.5	4	264	0.6	307	22,001	2.5
Region 08 Lower Mississippi	140	5,387	1.4	13	153	0.7	127	5,234	1.5
Region 09 Souris-Red-Rainy	6	60	0.4	-	-	-	6	60	0.4
Region 10 Missouri	30	171	1.4	-	-	-	30	171	1.4
Region 11 Arkansas-White-Red	27	565	1.0	6	6	1.0	21	559	1.0
Region 12 Texas-Gulf	227	1,152	0.5	15	15	1.0	212	1,137	0.5
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	186	1,070	1.2	-	-	-	186	1,070	1.2
Region 15 Lower Colorado	143	15,518	3.4	28	824	1.3	115	14,694	3.5
Region 16 Great Basin	41	8,900	2.0	8	(D)	(D)	33	(D)	(D)
Region 17 Pacific Northwest	3,068	120,049	2.0	670	32,864	1.8	2,266	69,919	2.5
Region 18 California	2,936	197,539	2.6	1,082	54,032	2.5	1,727	112,869	2.8
Region 19 Alaska	5	5	1.0	-	-	-	5	5	1.0
Region 20 Hawaii	70	593	0.8	17	161	0.9	53	432	0.8

See footnote(s) at end of table.

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Table 33. **Estimated Quantity of Water Applied in the Open Using Only Sprinkler Systems to Distribute Water: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Only hand move systems			Only big gun or traveler systems			Only side roll, wheel move, or other mechanical move systems			Only other sprinkler systems		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	13,317	165,971	1.5	2,870	182,221	0.7	4,973	428,008	1.7	2,702	398,859	1.3
2008 [2]	16,069	268,388	1.8	3,683	271,101	0.7	5,563	414,893	1.5	(NA)	(NA)	(NA)
2013 DATA												
Alabama	91	538	0.6	18	2,460	0.7	2	(D)	(D)	23	65	0.4
Alaska	33	65	0.6	-	-	-	3	20	0.3	-	-	-
Arizona	295	9,525	(D)	114	570	1.0	21	2,850	4.1	13	3,878	6.2
Arkansas	6	6	1.0	85	4,665	0.2	12	2,016	0.7	182	114,940	1.2
California	1,708	10,492	1.0	14	136	1.0	379	21,567	3.0	90	33,153	3.3
Colorado	220	3,211	1.2	-	-	-	91	12,562	1.5	13	127	0.5
Connecticut	95	154	1.1	-	-	-	-	-	-	15	15	2.9
Delaware	2	(D)	(D)	11	413	0.8	5	115	0.1	17	393	0.4
Florida	156	515	0.9	123	5,338	1.0	12	1,257	(D)	342	64,089	0.9
Georgia	171	1,615	0.6	18	880	1.3	5	1,900	0.3	38	5,155	0.4
Hawaii	136	349	1.2	-	-	-	-	-	-	56	1,147	4.1
Idaho	1,774	17,924	1.0	-	-	-	760	148,421	1.6	27	27	1.0
Illinois	61	265	0.5	44	3,101	0.5	22	27,620	0.6	1	(D)	(D)
Indiana	87	147	0.7	42	4,896	0.4	8	1,124	0.4	16	862	0.3
Iowa	70	120	0.7	3	80	0.1	18	1,560	0.4	12	62	1.1
Kansas	38	68	1.0	-	-	-	38	8,360	0.5	56	1,680	0.4
Kentucky	78	415	0.6	20	1,165	0.5	8	406	0.2	7	705	(Z)
Louisiana	44	650	0.8	2	(D)	(D)	-	-	-	128	24,071	0.8
Maine	146	308	0.6	7	870	0.4	-	-	-	-	-	-
Maryland	15	143	0.4	24	4,537	0.2	8	1,328	0.3	30	1,308	0.3
Massachusetts	124	929	1.0	17	320	2.3	-	-	-	29	306	2.0
Michigan	368	2,233	0.5	173	16,071	0.4	9	348	0.7	91	2,352	0.3
Minnesota	110	1,128	0.4	73	6,687	0.5	1	(D)	(D)	11	21	0.5
Mississippi	102	299	1.9	34	1,894	0.8	-	-	-	58	38,993	0.9
Missouri	97	632	0.4	60	3,670	0.9	-	-	-	46	26,756	0.7
Montana	286	11,295	1.1	83	830	1.3	267	20,420	0.9	74	8,490	1.8
Nebraska	66	178	1.7	3	78	1.4	6	30	0.6	-	-	-
Nevada	63	306	2.7	-	-	-	163	9,374	3.2	52	416	2.1
New Hampshire	41	78	0.7	-	-	-	8	(D)	(D)	18	36	0.8
New Jersey	107	773	0.7	77	6,677	0.4	1	(D)	(D)	40	64	0.9
New Mexico	149	2,576	1.3	-	-	-	123	12,792	1.6	58	5,212	3.7
New York	188	505	0.8	74	3,008	0.1	5	518	0.3	60	1,620	(D)
North Carolina	226	2,815	0.8	265	20,839	0.2	15	2,060	0.2	43	1,276	0.3
North Dakota	13	546	0.8	-	-	-	-	-	-	6	6	-
Ohio	129	436	0.9	41	3,476	0.8	2	(D)	(D)	38	1,394	1.1
Oklahoma	172	2,345	(D)	8	280	0.3	42	2,560	0.4	3	420	1.0
Oregon	1,356	35,401	1.7	536	17,162	1.3	593	25,963	2.5	58	7,706	1.7
Pennsylvania	173	341	0.5	24	1,384	0.3	-	-	-	81	235	0.4
Rhode Island	30	562	0.9	6	1,055	0.5	1	(D)	(D)	14	226	0.5
South Carolina	135	627	0.9	24	1,439	0.5	2	(D)	(D)	40	528	0.4
South Dakota	63	2,680	0.9	11	253	0.4	-	-	-	9	9	1.0
Tennessee	72	520	0.8	15	2,133	0.2	1	(D)	(D)	27	645	0.4
Texas	256	1,701	1.6	395	20,802	0.7	380	19,504	1.5	577	24,699	0.7
Utah	1,097	21,846	1.5	-	-	-	1,329	63,414	1.9	37	2,298	1.9
Vermont	93	677	0.2	-	-	-	1	(D)	(D)	10	10	1.0
Virginia	44	(D)	(D)	42	4,437	0.4	4	372	0.3	42	1,370	0.3
Washington	2,134	20,146	1.6	297	36,103	1.4	378	22,842	1.9	63	17,949	1.6
West Virginia	44	140	0.4	2	(D)	(D)	-	-	-	9	21	0.4
Wisconsin	182	1,206	3.4	33	3,092	0.6	14	1,040	0.1	40	429	3.8
Wyoming	171	5,257	1.3	52	1,300	0.8	236	13,797	1.8	2	(D)	(D)
Water Resources Regions												
Region 01 New England	474	2,088	0.9	30	2,245	0.7	10	146	0.4	86	593	1.4
Region 02 Mid-Atlantic	419	1,998	0.7	212	18,074	0.3	22	2,488	0.3	246	4,923	0.5
Region 03 South Atlantic-Gulf	780	6,256	0.8	459	32,419	0.4	37	5,800	0.4	519	71,245	0.9
Region 04 Great Lakes	612	3,604	(D)	228	18,601	0.4	19	(D)	(D)	138	4,346	0.5
Region 05 Ohio	314	1,614	0.6	96	9,750	0.6	20	7,222	0.8	66	404	0.8
Region 06 Tennessee	151	565	0.9	22	1,131	0.2	-	-	-	22	412	0.6
Region 07 Upper Mississippi	334	2,459	1.9	130	12,122	0.5	36	23,420	0.5	39	977	1.9
Region 08 Lower Mississippi	50	742	0.8	43	4,910	0.4	1	(D)	(D)	310	190,280	1.0
Region 09 Souris-Red-Rainy	36	550	0.8	-	-	-	-	-	-	-	-	-
Region 10 Missouri	590	8,745	1.3	172	4,811	0.6	394	27,247	0.9	154	13,560	2.0
Region 11 Arkansas-White-Red	272	2,978	0.7	122	3,385	0.7	54	4,576	0.5	255	17,340	0.9
Region 12 Texas-Gulf	90	539	0.7	395	20,802	0.7	423	21,224	1.7	363	16,983	0.9
Region 13 Rio Grande	272	3,394	1.6	-	-	-	77	9,242	1.6	98	11,212	1.9
Region 14 Upper Colorado	602	14,450	1.5	-	-	-	700	35,842	1.7	-	-	-
Region 15 Lower Colorado	243	9,713	(D)	114	570	1.0	183	5,658	3.2	13	3,878	6.2
Region 16 Great Basin	774	15,030	1.2	-	-	-	1,038	70,974	1.8	89	2,714	2.0
Region 17 Pacific Northwest	5,411	80,306	1.5	833	53,265	1.4	1,391	183,432	1.8	158	25,692	1.6
Region 18 California	1,724	10,526	1.0	14	136	1.0	565	29,007	2.8	90	33,153	3.3
Region 19 Alaska	33	65	0.6	-	-	-	3	20	0.3	-	-	-
Region 20 Hawaii	136	349	1.2	-	-	-	-	-	-	56	1,147	4.1

[1] Farms reporting more than one pressure are not included in the "All pressures" column.
[2] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 34. **Estimated Quantity of Water Applied in the Open Using Only Gravity Flow Systems to Distribute Water: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Total			Only down rows or furrows			Only controlled flooding (between borders or within basins)		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	53,824	13,296,785	1.9	18,380	3,394,577	1.7	19,564	3,511,942	2.5
2008 [1]	60,018	13,622,819	2.2	19,086	3,449,137	2.0	22,336	4,098,939	2.4
2013 DATA									
Alabama	27	1,384	0.3	11	328	0.4	-	-	-
Alaska	4	62	0.3	4	62	0.3	-	-	-
Arizona	2,368	570,305	4.1	469	177,937	4.0	1,239	103,951	4.9
Arkansas	2,360	3,069,585	1.4	799	502,308	1.4	377	351,189	1.6
California	9,100	2,285,786	3.2	2,566	262,188	3.3	4,835	1,046,564	4.0
Colorado	6,570	764,112	1.9	3,037	255,850	2.2	1,689	164,323	2.1
Connecticut	13	51	0.3	13	51	0.3	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	177	470,642	1.4	73	35,849	1.0	19	192,915	1.0
Georgia	6	2,100	0.4	-	-	-	-	-	-
Hawaii	98	649	1.9	23	242	2.6	46	205	1.2
Idaho	5,665	414,708	1.9	2,811	209,029	2.5	1,074	79,876	1.7
Illinois	7	1,760	(D)	1	(D)	(D)	-	-	-
Indiana	19	786	0.6	12	12	1.0	7	774	0.6
Iowa	20	245	0.1	14	185	0.1	6	60	0.2
Kansas	267	27,316	1.3	212	27,151	1.3	55	165	0.3
Kentucky	24	335	0.4	17	90	0.5	-	-	-
Louisiana	1,028	740,159	1.4	323	244,193	0.9	570	334,041	2.1
Maine	-	-	-	-	-	-	-	-	-
Maryland	8	256	0.5	6	(D)	0.5	-	-	-
Massachusetts	6	987	(D)	-	-	-	6	987	(D)
Michigan	6	6	1.0	-	-	-	-	-	-
Minnesota	30	20,926	1.1	-	-	-	28	(D)	1.3
Mississippi	550	756,510	1.2	343	376,868	1.0	23	19,019	1.5
Missouri	539	490,511	1.0	326	254,642	0.9	60	13,560	1.3
Montana	3,902	796,899	1.3	240	54,748	1.4	2,013	334,538	1.4
Nebraska	2,187	334,216	1.2	2,037	330,466	1.2	150	3,750	0.6
Nevada	1,252	342,206	2.2	98	11,521	3.4	708	176,183	2.4
New Hampshire	3	9	2.0	-	-	-	-	-	-
New Jersey	4	90	1.0	2	(D)	(D)	-	-	-
New Mexico	6,072	217,073	1.7	1,341	42,071	1.6	2,935	92,389	2.4
New York	19	695	0.3	10	530	0.4	-	-	-
North Carolina	48	968	0.9	34	256	0.3	2	(D)	(D)
North Dakota	76	12,140	0.9	23	3,178	1.1	38	(D)	1.2
Ohio	27	101	0.5	7	25	0.6	-	-	-
Oklahoma	25	2,168	1.2	25	2,168	1.2	-	-	-
Oregon	2,095	321,552	1.8	272	34,415	2.7	728	106,975	1.9
Pennsylvania	21	265	0.1	12	18	0.7	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	11	790	0.1	-	-	-	2	(D)	(D)
South Dakota	219	30,997	1.3	64	5,897	1.1	71	14,380	1.4
Tennessee	25	302	0.8	14	154	(D)	2	(D)	(D)
Texas	1,943	419,745	1.6	604	240,813	1.5	853	108,430	2.2
Utah	3,523	326,143	1.9	749	50,162	1.8	1,415	129,767	2.0
Vermont	17	55	0.4	6	33	0.4	3	6	0.5
Virginia	-	-	-	-	-	-	-	-	-
Washington	755	83,613	2.2	605	58,551	2.2	20	3,336	3.1
West Virginia	7	106	0.1	7	106	0.1	-	-	-
Wisconsin	19	414	1.2	10	20	0.8	-	-	-
Wyoming	2,682	787,057	1.4	1,160	211,860	1.6	590	218,612	1.3
Water Resources Regions									
Region 01 New England	22	1,047	(D)	13	51	0.3	6	987	(D)
Region 02 Mid-Atlantic	50	565	0.5	34	407	0.5	-	-	-
Region 03 South Atlantic-Gulf	269	476,600	1.4	122	37,233	1.0	23	193,155	1.0
Region 04 Great Lakes	30	668	0.4	9	480	0.4	3	6	0.5
Region 05 Ohio	79	1,326	0.3	36	127	0.6	7	610	(D)
Region 06 Tennessee	18	135	(D)	13	36	0.4	-	-	-
Region 07 Upper Mississippi	75	21,015	0.7	42	13,817	0.5	18	(D)	1.0
Region 08 Lower Mississippi	3,901	4,486,281	1.3	1,622	1,285,404	1.1	879	644,973	1.8
Region 09 Souris-Red-Rainy	27	16,174	1.2	7	56	2.3	18	(D)	1.5
Region 10 Missouri	9,152	1,855,203	1.4	3,704	639,280	1.4	3,110	498,930	1.4
Region 11 Arkansas-White-Red	2,134	726,296	1.3	913	177,575	1.5	330	89,683	1.7
Region 12 Texas-Gulf	1,558	379,162	1.6	420	215,161	1.5	664	94,707	2.3
Region 13 Rio Grande	6,039	234,530	1.8	1,223	26,262	1.9	2,977	98,111	2.3
Region 14 Upper Colorado	5,366	722,293	1.8	3,104	209,168	2.1	1,033	209,152	1.9
Region 15 Lower Colorado	2,680	605,541	4.1	361	178,171	4.0	1,276	105,645	4.9
Region 16 Great Basin	3,852	568,231	2.1	405	36,184	2.6	2,011	287,272	2.2
Region 17 Pacific Northwest	9,207	880,903	1.8	3,759	312,673	2.4	2,210	207,305	1.7
Region 18 California	9,263	2,320,104	3.2	2,566	262,188	3.3	4,953	1,068,608	4.0
Region 19 Alaska	4	62	0.3	4	62	0.3	-	-	-
Region 20 Hawaii	98	649	1.9	23	242	2.6	46	205	1.2

See footnote(s) at end of table.

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Table 34. **Estimated Quantity of Water Applied in the Open Using Only Gravity Flow Systems to Distribute Water: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Only uncontrolled flooding (rangeland, pastureland, etc.)			Only other gravity		
	Farms	Acres irrigated	Average acre-feet per acre	Farms	Acres irrigated	Average acre-feet per acre
United States 2013	6,896	787,224	1.5	1,054	155,793	2.3
2008 [1]	6,059	901,645	1.8	3,350	289,819	2.0
2013 DATA						
Alabama	10	260	0.5	-	-	-
Alaska	-	-	-	-	-	-
Arizona	165	4,044	2.6	140	6,752	4.1
Arkansas	-	-	-	27	4,012	2.0
California	518	51,124	1.8	163	45,590	3.6
Colorado	448	87,501	1.6	223	37,109	1.8
Connecticut	-	-	-	-	-	-
Delaware	-	-	-	-	-	-
Florida	44	8,591	(D)	16	15,791	0.8
Georgia	-	-	-	4	960	0.3
Hawaii	8	76	1.8	-	-	-
Idaho	1,389	48,679	1.2	-	-	-
Illinois	-	-	-	5	400	0.3
Indiana	-	-	-	-	-	-
Iowa	-	-	-	-	-	-
Kansas	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-
Louisiana	7	(D)	(D)	-	-	-
Maine	-	-	-	-	-	-
Maryland	-	-	-	2	(D)	(D)
Massachusetts	-	-	-	-	-	-
Michigan	-	-	-	6	6	1.0
Minnesota	2	(D)	(D)	-	-	-
Mississippi	-	-	-	-	-	-
Missouri	-	-	-	1	(D)	(D)
Montana	1,025	159,307	1.2	170	7,856	1.1
Nebraska	-	-	-	-	-	-
Nevada	178	64,072	1.6	-	-	-
New Hampshire	-	-	-	3	9	2.0
New Jersey	-	-	-	2	(D)	(D)
New Mexico	1,082	38,191	0.7	-	-	-
New York	-	-	-	9	165	0.2
North Carolina	6	600	1.0	6	(D)	0.3
North Dakota	-	-	-	7	266	0.5
Ohio	-	-	-	20	76	0.5
Oklahoma	-	-	-	-	-	-
Oregon	745	88,223	2.0	-	-	-
Pennsylvania	-	-	-	9	247	0.1
Rhode Island	-	-	-	-	-	-
South Carolina	2	(D)	(D)	-	-	-
South Dakota	44	2,140	1.4	-	-	-
Tennessee	2	(D)	(D)	7	28	0.5
Texas	206	21,478	1.0	13	10,660	2.5
Utah	604	29,280	2.5	102	(D)	(D)
Vermont	-	-	-	-	-	-
Virginia	-	-	-	-	-	-
Washington	11	3,300	2.3	17	4,906	2.2
West Virginia	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-
Wyoming	400	168,945	1.5	102	16,326	1.6
Water Resources Regions						
Region 01 New England	-	-	-	3	9	2.0
Region 02 Mid-Atlantic	-	-	-	16	158	0.4
Region 03 South Atlantic-Gulf	62	9,831	(D)	26	16,823	0.8
Region 04 Great Lakes	-	-	-	10	166	0.3
Region 05 Ohio	-	-	-	29	344	0.2
Region 06 Tennessee	1	(D)	(D)	-	-	-
Region 07 Upper Mississippi	-	-	-	5	400	0.3
Region 08 Lower Mississippi	5	(D)	(D)	1	(D)	(D)
Region 09 Souris-Red-Rainy	2	(D)	(D)	-	-	-
Region 10 Missouri	1,024	299,461	1.3	263	18,959	1.4
Region 11 Arkansas-White-Red	118	7,260	0.5	220	13,308	1.4
Region 12 Texas-Gulf	250	23,238	1.0	13	10,660	2.5
Region 13 Rio Grande	1,043	39,759	0.8	-	-	-
Region 14 Upper Colorado	342	82,158	2.0	8	26,870	2.0
Region 15 Lower Colorado	367	12,596	2.1	140	6,752	4.1
Region 16 Great Basin	784	58,810	1.7	102	(D)	(D)
Region 17 Pacific Northwest	2,344	180,752	1.7	55	11,338	1.8
Region 18 California	546	63,450	1.9	163	45,590	3.6
Region 19 Alaska	-	-	-	-	-	-
Region 20 Hawaii	8	76	1.8	-	-	-

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for grain or seed										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 99 acres	100 to 249 acres	250 to 499 acres	500 to 999 acres	1,000 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
United States 2013	37,247	13,289,247	196	10,286	12,289	6,877	4,956	2,839	22,244	6,377,643	129
2008 [1]	33,571	11,991,515	181	8,281	10,720	7,539	4,610	2,421	19,045	5,075,025	129
2013 DATA											
Alabama	135	35,551	199	37	51	28	13	6	116	48,205	147
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	94	46,082	212	36	16	12	13	17	-	-	-
Arkansas	1,497	698,974	189	253	356	351	360	177	95	11,215	104
California	489	152,261	199	194	119	78	61	37	-	-	-
Colorado	1,689	583,424	188	572	496	298	167	156	223	115,785	41
Connecticut	-	-	-	-	-	-	-	-	10	942	(D)
Delaware	237	59,543	198	72	96	35	26	8	217	53,257	145
Florida	119	27,477	179	53	41	11	7	7	57	10,054	89
Georgia	1,009	253,218	195	297	336	242	115	19	291	33,357	137
Hawaii	20	5,313	54	11	2	4	2	1	-	-	-
Idaho	888	132,254	188	520	268	40	42	18	-	-	-
Illinois	912	375,813	196	219	273	200	133	87	974	531,844	173
Indiana	886	309,977	197	262	247	193	114	70	974	549,086	169
Iowa	441	117,932	206	137	154	82	51	17	547	227,804	171
Kansas	3,713	1,505,272	194	629	1,188	1,033	588	275	1,849	775,512	78
Kentucky	78	27,907	203	15	33	17	9	4	202	112,180	182
Louisiana	485	298,958	193	54	111	125	81	114	215	82,984	158
Maine	-	-	-	-	-	-	-	-	3	(D)	(D)
Maryland	260	43,580	196	106	95	44	13	2	223	57,976	158
Massachusetts	7	7	128	7	-	-	-	-	17	(D)	185
Michigan	923	299,962	194	279	330	177	84	53	1,054	289,981	150
Minnesota	1,146	267,208	181	466	388	172	76	44	1,036	428,642	141
Mississippi	782	521,338	192	72	156	201	191	162	275	98,069	155
Missouri	961	349,395	188	282	242	221	139	77	638	145,872	140
Montana	298	41,170	156	149	114	29	3	3	25	10,787	67
Nebraska	13,915	5,351,824	202	3,039	5,320	2,318	2,112	1,126	9,341	1,442,994	96
Nevada	19	(D)	(D)	15	-	3	1	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	77	8,536	191	45	26	4	1	1	108	11,872	159
New Mexico	144	47,342	194	71	40	21	8	4	1	(D)	(D)
New York	37	3,166	181	29	4	4	-	-	161	29,262	163
North Carolina	226	28,540	173	123	85	9	4	5	232	46,189	149
North Dakota	248	91,616	168	43	94	66	32	13	232	210,021	126
Ohio	46	9,925	195	19	14	6	7	-	247	39,769	181
Oklahoma	221	100,185	209	34	75	65	28	19	57	12,181	114
Oregon	300	37,983	209	214	53	10	16	7	2	(D)	(D)
Pennsylvania	38	1,531	194	36	1	1	-	-	700	33,672	160
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	183	41,442	190	77	40	49	13	4	192	44,913	134
South Dakota	788	199,926	190	208	343	142	64	31	600	428,257	145
Tennessee	197	69,820	198	45	63	44	30	15	217	115,332	164
Texas	1,756	792,089	197	461	540	294	239	222	272	128,481	104
Utah	339	37,141	178	251	45	27	14	2	3	600	80
Vermont	-	-	-	-	-	-	-	-	-	-	-
Virginia	76	15,182	204	34	16	20	4	2	145	42,201	156
Washington	617	98,131	210	403	121	42	40	11	11	(D)	(D)
West Virginia	4	(D)	(D)	3	-	1	-	-	7	483	190
Wisconsin	652	145,744	185	295	190	102	42	23	673	202,647	130
Wyoming	295	53,846	152	119	107	56	13	-	2	(D)	(D)
Water Resources Regions											
Region 01 New England	7	7	128	7	-	-	-	-	30	3,645	153
Region 02 Mid-Atlantic	713	129,825	197	314	238	104	44	13	1,374	198,050	154
Region 03 South Atlantic-Gulf	1,735	389,374	191	607	595	351	143	39	893	165,860	137
Region 04 Great Lakes	1,297	397,977	196	417	438	253	120	69	1,623	437,700	153
Region 05 Ohio	619	206,682	201	180	192	127	76	44	1,062	534,289	175
Region 06 Tennessee	97	25,520	208	33	31	14	15	4	119	47,211	155
Region 07 Upper Mississippi	2,959	860,252	189	1,078	900	528	286	167	2,997	1,265,817	155
Region 08 Lower Mississippi	3,120	1,704,345	192	485	667	744	718	506	826	314,450	160
Region 09 Souris-Red-Rainy	214	77,390	170	33	101	44	21	15	216	195,762	134
Region 10 Missouri	18,879	6,854,073	198	4,465	7,097	3,331	2,601	1,385	11,927	2,761,901	104
Region 11 Arkansas-White-Red	3,594	1,812,603	201	421	1,084	1,005	636	448	962	345,682	81
Region 12 Texas-Gulf	933	280,022	176	370	256	146	107	54	174	103,676	102
Region 13 Rio Grande	99	8,156	190	64	32	3	-	-	24	2,160	107
Region 14 Upper Colorado	252	37,907	185	190	41	15	4	2	1	(D)	(D)
Region 15 Lower Colorado	104	46,572	211	42	20	12	13	17	-	-	-
Region 16 Great Basin	302	31,760	178	233	30	26	11	2	3	(D)	(D)
Region 17 Pacific Northwest	1,812	268,788	199	1,142	444	92	98	36	13	340	151
Region 18 California	491	152,681	199	194	121	78	61	37	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	20	5,313	54	11	2	4	2	1	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for silage or greenchop										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (tons, green)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (tons, green)
United States 2013	8,382	1,729,358	25	1,320	1,789	1,468	1,881	1,924	2,786	304,703	13
2008 [1]	9,135	1,633,540	25	1,692	1,820	1,597	2,112	1,914	2,603	253,298	16
2013 DATA											
Alabama	1	(D)	(D)	-	-	-	1	-	8	220	13
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	69	30,364	28	12	-	15	14	28	-	-	-
Arkansas	21	840	25	-	21	-	-	-	-	-	-
California	1,583	363,651	28	202	467	221	259	434	-	-	-
Colorado	579	103,698	24	31	138	164	163	83	26	1,519	5
Connecticut	5	(D)	(D)	5	-	-	-	-	8	1,479	15
Delaware	12	1,348	22	-	-	6	6	-	18	1,498	19
Florida	38	12,416	18	-	-	-	22	16	17	2,119	20
Georgia	48	15,995	24	-	-	12	16	20	21	3,854	20
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,521	203,110	27	566	419	171	199	166	5	1,820	17
Illinois	8	130	20	8	-	-	-	-	19	1,128	14
Indiana	58	7,948	25	8	21	12	6	11	65	12,048	13
Iowa	6	762	21	-	-	3	2	1	62	7,485	13
Kansas	474	108,442	20	34	-	103	257	80	246	35,810	13
Kentucky	2	(D)	(D)	-	-	-	2	-	56	1,641	22
Louisiana	9	1,305	18	3	-	3	-	3	-	-	-
Maine	1	(D)	(D)	-	1	-	-	-	-	-	-
Maryland	13	1,987	25	2	-	3	4	4	20	3,587	16
Massachusetts	-	-	-	-	-	-	-	-	7	(D)	(D)
Michigan	71	11,379	25	3	18	25	9	16	108	23,765	18
Minnesota	142	17,188	21	20	58	17	32	15	155	22,847	15
Mississippi	12	1,140	21	-	-	12	-	-	12	1,020	15
Missouri	17	1,530	20	7	-	3	7	-	102	2,761	12
Montana	267	36,522	23	12	116	42	67	30	-	-	-
Nebraska	1,130	297,353	24	140	215	83	214	478	682	93,187	7
Nevada	86	9,740	24	6	36	27	-	17	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	2	(D)	(D)	-	-	2	-	-	8	130	15
New Mexico	303	76,556	22	10	35	64	111	83	2	(D)	(D)
New York	1	(D)	(D)	-	-	-	-	1	82	5,974	21
North Carolina	2	(D)	(D)	-	-	-	2	-	2	(D)	(D)
North Dakota	55	3,863	22	5	6	41	3	-	54	6,688	11
Ohio	7	1,509	25	1	1	2	-	3	38	4,110	20
Oklahoma	51	20,517	19	10	3	2	21	15	6	72	8
Oregon	224	33,976	26	14	48	84	34	44	14	1,144	16
Pennsylvania	17	1,564	28	8	4	1	-	4	445	9,952	24
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	32	1,900	22	5	4	21	2	-	16	2,260	16
South Dakota	95	11,679	18	30	15	24	17	9	67	10,916	12
Tennessee	3	221	18	1	-	-	2	-	20	818	19
Texas	360	159,455	25	-	1	87	97	175	14	3,754	14
Utah	387	57,351	24	92	44	83	118	50	9	927	17
Vermont	-	-	-	-	-	-	-	-	1	(D)	(D)
Virginia	11	1,135	27	-	-	4	7	-	34	1,750	23
Washington	240	67,038	28	29	39	27	76	69	93	13,630	24
West Virginia	3	3	25	3	-	-	-	-	1	(D)	(D)
Wisconsin	155	27,023	23	40	13	33	43	26	238	23,006	17
Wyoming	261	37,329	23	13	66	71	68	43	5	257	17
Water Resources Regions											
Region 01 New England	6	71	23	5	1	-	-	-	15	1,584	15
Region 02 Mid-Atlantic	53	6,126	26	10	2	16	17	8	514	17,138	22
Region 03 South Atlantic-Gulf	121	30,721	21	5	4	33	43	36	64	9,453	19
Region 04 Great Lakes	150	23,376	24	30	29	44	17	30	299	43,007	18
Region 05 Ohio	34	3,370	25	8	16	-	6	4	124	6,598	14
Region 06 Tennessee	-	-	-	-	-	-	-	-	17	543	18
Region 07 Upper Mississippi	249	38,358	22	43	55	48	65	38	443	46,917	16
Region 08 Lower Mississippi	39	4,100	20	4	11	15	6	3	17	1,129	15
Region 09 Souris-Red-Rainy	33	1,736	23	5	13	11	4	-	31	4,520	11
Region 10 Missouri	2,444	501,524	23	209	517	513	564	641	1,080	141,998	8
Region 11 Arkansas-White-Red	506	171,730	21	44	14	11	298	139	46	10,745	18
Region 12 Texas-Gulf	353	128,896	24	-	-	96	101	156	15	3,550	14
Region 13 Rio Grande	199	49,041	22	5	30	53	60	51	-	-	-
Region 14 Upper Colorado	176	12,008	24	92	35	21	11	17	-	-	-
Region 15 Lower Colorado	57	30,244	28	-	-	15	14	28	-	-	-
Region 16 Great Basin	396	60,797	24	49	80	99	108	60	9	927	17
Region 17 Pacific Northwest	1,983	303,609	27	609	515	272	308	279	112	16,594	22
Region 18 California	1,583	363,651	28	202	467	221	259	434	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sorghum for grain or seed										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 49 acres	50 to 99 acres	100 to 249 acres	250 to 499 acres	500 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
United States 2013	3,923	809,579	97	647	850	1,494	545	387	4,292	1,744,788	50
2008 [1]	4,118	1,042,392	77	372	1,020	1,384	584	758	4,490	1,512,558	54
2013 DATA											
Alabama	1	(D)	(D)	-	1	-	-	-	10	1,190	53
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	53	10,466	119	18	15	8	4	8	-	-	-
Arkansas	185	38,909	112	17	30	76	43	19	156	39,365	99
California	42	10,305	83	-	-	24	17	1	-	-	-
Colorado	155	9,542	92	96	30	29	-	-	32	10,700	43
Connecticut	-	-	-	-	-	-	-	-	-	-	-
Delaware	1	(D)	(D)	-	1	-	-	-	2	(D)	(D)
Florida	15	900	68	-	15	-	-	-	15	870	73
Georgia	34	7,706	45	9	6	8	7	4	52	12,044	57
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	4	112	156	3	1	-	-	-	-	-	-
Illinois	4	84	65	4	-	-	-	-	15	1,752	75
Indiana	5	2,736	93	-	-	2	1	2	10	1,662	65
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	1,167	175,604	115	112	284	621	120	30	1,961	828,043	57
Kentucky	-	-	-	-	-	-	-	-	2	(D)	(D)
Louisiana	15	6,120	95	-	-	5	3	7	65	26,156	105
Maine	-	-	-	-	-	-	-	-	-	-	-
Maryland	12	387	81	10	2	-	-	-	32	2,498	65
Massachusetts	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-
Mississippi	19	1,774	121	13	-	4	2	-	72	23,023	88
Missouri	40	4,499	111	14	11	8	6	1	46	6,638	92
Montana	5	100	96	5	-	-	-	-	-	-	-
Nebraska	84	4,494	102	56	14	14	-	-	367	27,584	69
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	1	(D)	(D)	-	-	1	-	-	4	675	58
New Mexico	99	19,607	98	4	40	33	13	9	31	7,220	62
New York	-	-	-	-	-	-	-	-	6	66	56
North Carolina	15	883	69	7	6	2	-	-	46	5,599	61
North Dakota	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	5	25	56
Oklahoma	118	20,030	81	13	20	59	24	2	104	39,294	24
Oregon	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	2	(D)	(D)	2	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	4	190	97	2	2	-	-	-	12	3,932	43
South Dakota	3	105	96	3	-	-	-	-	7	2,200	53
Tennessee	6	1,397	97	-	-	5	-	1	9	3,208	78
Texas	1,813	492,796	90	240	370	595	305	303	1,216	699,646	34
Utah	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	8	24	56
Virginia	2	(D)	(D)	-	2	-	-	-	7	630	72
Washington	19	444	39	19	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	-	-	-	-	-	-	-	-	8	24	56
Region 02 Mid-Atlantic	16	626	75	12	3	1	-	-	43	3,827	64
Region 03 South Atlantic-Gulf	71	9,829	51	18	32	10	7	4	148	26,235	56
Region 04 Great Lakes	2	(D)	(D)	-	-	2	-	-	10	(D)	(D)
Region 05 Ohio	2	(D)	(D)	-	-	2	-	-	15	2,703	77
Region 06 Tennessee	2	(D)	(D)	-	-	2	-	-	2	(D)	(D)
Region 07 Upper Mississippi	9	3,070	96	4	-	-	3	2	22	2,122	84
Region 08 Lower Mississippi	220	46,759	112	33	34	79	46	28	289	90,223	99
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	495	38,651	98	107	269	119	-	-	1,005	254,081	55
Region 11 Arkansas-White-Red	1,587	307,042	102	184	279	822	211	91	1,808	738,689	54
Region 12 Texas-Gulf	1,156	370,585	91	75	186	389	255	251	934	624,614	35
Region 13 Rio Grande	230	9,200	99	169	31	26	2	2	8	740	62
Region 14 Upper Colorado	10	1,600	80	-	-	10	-	-	-	-	-
Region 15 Lower Colorado	53	10,466	119	18	15	8	4	8	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	28	656	68	27	1	-	-	-	-	-	-
Region 18 California	42	10,305	83	-	-	24	17	1	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Wheat for grain or seed										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 49 acres	50 to 99 acres	100 to 249 acres	250 to 499 acres	500 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
United States 2013	12,974	3,197,501	78	2,525	3,071	4,029	1,799	1,550	14,334	6,847,838	39
2008 [1]	16,265	4,107,464	75	3,352	2,691	5,505	2,684	2,033	17,097	7,361,506	40
2013 DATA											
Alabama	11	2,500	79	-	-	8	3	-	72	40,761	68
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	136	65,301	104	17	12	31	26	50	-	-	-
Arkansas	32	14,344	67	7	1	11	1	12	801	309,473	63
California	900	339,188	107	36	61	487	126	190	62	15,657	34
Colorado	857	102,472	63	334	227	176	85	35	749	451,372	26
Connecticut	-	-	-	-	-	-	-	-	7	21	48
Delaware	62	9,694	68	12	22	15	10	3	147	34,932	67
Florida	8	(D)	(D)	8	-	-	-	-	-	-	-
Georgia	210	50,584	67	15	65	58	52	20	303	77,414	61
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	2,758	700,201	104	887	721	494	314	342	170	45,768	25
Illinois	49	3,441	71	29	10	8	2	-	244	34,481	69
Indiana	56	4,907	88	21	15	16	4	-	201	29,868	75
Iowa	-	-	-	-	-	-	-	-	6	310	49
Kansas	1,683	471,161	45	34	317	782	312	238	3,489	2,341,100	37
Kentucky	6	1,630	87	-	3	2	-	1	57	20,205	75
Louisiana	31	11,952	76	3	-	12	12	4	185	59,614	58
Maine	-	-	-	-	-	-	-	-	2	(D)	(D)
Maryland	62	5,873	72	18	24	16	4	-	178	35,132	73
Massachusetts	-	-	-	-	-	-	-	-	2	(D)	(D)
Michigan	66	11,629	74	21	17	17	7	4	275	30,691	65
Minnesota	28	5,559	70	8	3	8	8	1	160	49,571	61
Mississippi	9	3,000	63	-	-	2	5	2	364	154,259	64
Missouri	99	30,966	70	8	11	34	32	14	469	116,929	72
Montana	912	164,970	69	282	138	293	120	79	715	742,957	36
Nebraska	947	121,773	74	117	544	170	106	10	2,264	720,354	26
Nevada	48	16,923	111	3	18	19	3	5	3	1,920	24
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	20	730	52	16	1	1	2	-	60	8,334	58
New Mexico	189	56,367	61	58	40	38	25	28	73	39,613	41
New York	8	790	84	6	-	-	2	-	44	5,956	76
North Carolina	66	6,647	74	17	31	11	7	-	182	46,384	62
North Dakota	91	17,522	66	19	11	27	32	2	217	180,360	44
Ohio	1	(D)	(D)	-	-	1	-	-	80	5,666	78
Oklahoma	400	96,948	41	8	84	212	61	35	474	282,254	26
Oregon	459	149,430	101	67	84	142	66	100	356	132,478	59
Pennsylvania	-	-	-	-	-	-	-	-	218	6,003	70
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	38	5,272	63	2	13	19	3	1	94	28,138	61
South Dakota	18	1,822	82	-	9	9	-	-	130	53,353	41
Tennessee	12	3,060	84	-	3	5	2	2	112	53,094	76
Texas	1,494	440,046	42	144	295	609	193	253	909	430,828	18
Utah	415	40,956	102	235	63	69	32	16	26	14,109	20
Vermont	-	-	-	-	-	-	-	-	-	-	-
Virginia	12	2,230	83	1	5	2	3	1	81	25,314	74
Washington	712	227,058	111	77	212	192	131	100	180	194,505	55
West Virginia	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	24	2,377	67	9	4	9	1	1	120	12,234	55
Wyoming	45	7,886	80	6	7	24	7	1	53	15,954	25
Water Resources Regions											
Region 01 New England	-	-	-	-	-	-	-	-	11	493	41
Region 02 Mid-Atlantic	156	18,527	70	47	52	34	19	4	673	104,757	70
Region 03 South Atlantic-Gulf	328	63,755	68	42	109	94	62	21	662	182,371	61
Region 04 Great Lakes	95	13,482	75	38	23	21	9	4	430	50,216	65
Region 05 Ohio	28	4,959	85	5	1	17	4	1	272	59,939	76
Region 06 Tennessee	5	1,400	94	-	-	2	3	-	44	24,652	77
Region 07 Upper Mississippi	105	11,115	72	49	23	20	11	2	472	43,230	56
Region 08 Lower Mississippi	170	60,262	70	18	17	55	46	34	1,617	610,484	66
Region 09 Souris-Red-Rainy	24	3,551	72	2	6	11	5	-	118	89,623	60
Region 10 Missouri	2,881	446,353	67	503	972	947	339	120	5,371	2,672,820	34
Region 11 Arkansas-White-Red	2,535	821,540	44	63	449	1,071	494	458	3,359	2,379,206	32
Region 12 Texas-Gulf	762	172,560	44	120	183	267	102	90	445	201,449	22
Region 13 Rio Grande	141	17,466	55	59	40	28	3	11	37	9,832	48
Region 14 Upper Colorado	177	16,168	77	159	5	11	-	2	6	11,115	14
Region 15 Lower Colorado	197	69,761	104	73	12	31	26	55	-	-	-
Region 16 Great Basin	504	81,296	96	175	149	88	58	34	99	31,476	21
Region 17 Pacific Northwest	3,951	1,050,017	106	1,136	966	836	489	524	655	359,518	54
Region 18 California	915	345,289	106	36	64	496	129	190	63	16,657	36
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Soybeans for beans										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (bushels)	1 to 49 acres	50 to 99 acres	100 to 249 acres	250 to 499 acres	500 acres or more	Farms	Acres harvested	Average yield per acre (bushels)
United States 2013	21,755	7,413,276	54	2,544	3,924	6,966	4,128	4,193	19,569	5,847,055	40
2008 [1]	23,024	7,044,546	49	2,764	4,155	7,726	4,396	3,983	18,846	5,394,776	37
2013 DATA											
Alabama	62	15,385	59	6	14	19	14	9	111	75,719	46
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-
Arkansas	3,222	2,592,619	48	199	172	448	550	1,853	1,074	331,167	31
California	-	-	-	-	-	-	-	-	-	-	-
Colorado	60	7,790	48	-	24	36	-	-	-	-	-
Connecticut	7	7	34	7	-	-	-	-	-	-	-
Delaware	209	32,371	51	62	45	65	24	13	202	53,148	35
Florida	14	2,880	37	8	-	-	2	4	60	14,500	44
Georgia	262	55,036	47	41	53	95	46	27	288	57,703	38
Hawaii	2	(D)	(D)	2	-	-	-	-	-	-	-
Idaho	16	1,104	44	-	16	-	-	-	-	-	-
Illinois	586	112,182	57	89	165	205	85	42	847	348,108	49
Indiana	549	98,378	59	87	119	228	84	31	821	380,596	48
Iowa	251	50,421	56	39	67	78	47	20	472	156,642	49
Kansas	1,842	316,362	55	200	404	991	133	114	1,652	522,029	37
Kentucky	60	13,855	55	6	17	20	7	10	150	107,036	52
Louisiana	548	263,466	59	33	81	107	141	186	672	308,614	39
Maine	8	8	46	8	-	-	-	-	-	-	-
Maryland	196	26,294	50	50	58	59	23	6	249	71,177	40
Massachusetts	-	-	-	-	-	-	-	-	-	-	-
Michigan	511	83,905	55	136	121	162	61	31	804	199,262	43
Minnesota	643	94,717	49	139	214	196	71	23	868	286,984	34
Mississippi	1,101	913,850	57	31	93	171	209	597	775	442,725	36
Missouri	1,152	521,166	48	60	147	319	251	375	990	416,485	37
Montana	23	4,092	44	3	-	16	4	-	22	25,508	41
Nebraska	8,990	1,935,369	62	1,119	1,776	3,166	2,177	752	6,759	858,584	40
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	53	6,620	50	12	11	21	8	1	118	17,994	39
New Mexico	-	-	-	-	-	-	-	-	-	-	-
New York	5	(D)	(D)	5	-	-	-	-	80	(D)	53
North Carolina	86	8,989	47	36	20	24	4	2	314	102,839	35
North Dakota	154	26,955	47	5	42	77	20	10	213	190,813	33
Ohio	38	2,061	59	27	4	5	2	-	180	48,707	54
Oklahoma	134	31,469	50	13	17	62	29	13	41	17,307	26
Oregon	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	3	86	54	3	-	-	-	-	243	17,274	50
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	60	8,279	46	11	11	30	8	-	118	39,045	28
South Dakota	412	77,706	56	33	119	173	61	26	602	351,371	42
Tennessee	145	43,144	55	10	25	67	18	25	221	218,780	46
Texas	50	16,922	50	-	-	41	-	9	35	9,674	(D)
Utah	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Virginia	56	10,327	57	8	16	17	12	3	139	63,003	40
Washington	3	513	54	-	-	3	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	1	(D)	(D)
Wisconsin	229	33,139	52	56	73	65	24	11	448	105,291	32
Wyoming	13	5,720	66	-	-	-	13	-	-	-	-
Water Resources Regions											
Region 01 New England	15	15	40	15	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	505	74,855	52	131	123	161	67	23	921	207,881	40
Region 03 South Atlantic-Gulf	509	89,975	48	121	108	163	82	35	903	346,333	37
Region 04 Great Lakes	693	121,264	56	162	157	235	94	45	1,204	282,804	44
Region 05 Ohio	450	84,370	58	77	101	177	65	30	835	455,602	50
Region 06 Tennessee	59	12,700	56	8	12	16	14	9	92	75,311	45
Region 07 Upper Mississippi	1,664	255,419	53	359	482	552	193	78	2,455	796,776	41
Region 08 Lower Mississippi	5,205	3,883,709	51	251	368	895	990	2,701	2,980	1,312,140	38
Region 09 Souris-Red-Rainy	144	27,114	47	3	41	72	21	7	231	195,879	34
Region 10 Missouri	10,820	2,262,083	61	1,336	2,254	3,987	2,365	878	8,925	1,860,598	41
Region 11 Arkansas-White-Red	1,665	599,641	46	79	262	700	237	387	1,019	312,805	31
Region 12 Texas-Gulf	5	(D)	(D)	-	-	5	-	-	4	926	41
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	19	1,617	47	-	16	3	-	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	(D)	2	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Beans, dry edible										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre (cwt)
United States 2013	2,793	433,590	25	963	161	376	797	496	343	82,696	15
2008 [1]	2,849	431,329	24	655	427	580	691	496	366	156,348	15
2013 DATA											
Alabama	4	8	25	4	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	35	9,828	17	-	-	4	18	13	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-
California	164	38,855	26	15	-	18	80	51	3	546	21
Colorado	109	16,525	25	-	-	36	56	17	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-
Delaware	4	1,116	28	-	-	3	-	1	4	1,202	18
Florida	-	-	-	-	-	-	-	-	-	-	-
Georgia	20	2,182	44	7	-	6	5	2	7	14	16
Hawaii	9	31	40	9	-	-	-	-	-	-	-
Idaho	1,102	66,892	26	707	132	54	160	49	10	4,600	16
Illinois	5	352	25	-	-	4	1	-	26	3,449	15
Indiana	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	82	10,560	21	-	-	-	81	1	20	2,700	21
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Maine	8	8	21	8	-	-	-	-	-	-	-
Maryland	4	780	23	-	-	-	4	-	11	1,128	17
Massachusetts	14	14	25	14	-	-	-	-	14	77	10
Michigan	44	10,798	20	-	1	8	23	12	53	8,678	14
Minnesota	77	32,443	23	-	2	9	30	36	56	15,344	20
Mississippi	36	36	25	36	-	-	-	-	-	-	-
Missouri	3	(D)	(D)	-	-	-	2	1	-	-	-
Montana	69	8,420	26	-	-	22	46	1	-	-	-
Nebraska	362	125,226	25	-	-	56	106	200	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	8	120	38
New Jersey	5	(D)	(D)	4	-	-	1	-	-	-	-
New Mexico	39	10,001	21	28	-	3	3	5	-	-	-
New York	1	(D)	(D)	-	-	-	-	1	1	(D)	(D)
North Carolina	6	1,506	25	-	-	-	-	6	-	-	-
North Dakota	42	7,541	21	-	3	11	18	10	46	37,263	13
Ohio	14	23	30	14	-	-	-	-	4	510	8
Oklahoma	9	1,080	13	-	-	-	9	-	8	1,040	8
Oregon	43	8,113	24	6	-	4	20	13	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	14	19	25	14	-	-	-	-	-	-	-
South Dakota	4	3,310	29	-	-	-	2	2	-	-	-
Tennessee	12	128	25	10	1	1	-	-	1	(D)	(D)
Texas	37	3,196	26	-	-	23	14	-	32	376	8
Utah	-	-	-	-	-	-	-	-	-	-	-
Vermont	10	10	25	10	-	-	-	-	10	13	16
Virginia	7	7	25	7	-	-	-	-	7	112	16
Washington	156	31,560	27	28	22	33	39	34	13	2,554	23
West Virginia	3	3	25	3	-	-	-	-	-	-	-
Wisconsin	16	5,625	22	5	-	2	6	3	9	421	9
Wyoming	224	35,181	25	34	-	79	73	38	-	-	-
Water Resources Regions											
Region 01 New England	25	25	24	25	-	-	-	-	22	197	27
Region 02 Mid-Atlantic	20	2,116	(D)	11	-	3	5	1	22	2,442	17
Region 03 South Atlantic-Gulf	80	3,751	36	61	-	6	5	8	7	14	16
Region 04 Great Lakes	61	11,173	21	16	1	8	23	13	66	9,095	14
Region 05 Ohio	8	8	28	8	-	-	-	-	2	(D)	(D)
Region 06 Tennessee	11	98	25	10	-	1	-	-	-	-	-
Region 07 Upper Mississippi	78	31,803	23	5	2	15	25	31	80	16,045	18
Region 08 Lower Mississippi	4	(D)	12	-	1	-	2	1	1	(D)	(D)
Region 09 Souris-Red-Rainy	54	13,538	23	-	3	5	28	18	43	31,068	13
Region 10 Missouri	810	195,226	25	34	-	172	345	259	34	12,064	15
Region 11 Arkansas-White-Red	19	(D)	26	-	-	-	19	-	32	1,400	(D)
Region 12 Texas-Gulf	41	4,496	25	-	-	23	14	4	8	16	8
Region 13 Rio Grande	34	1,194	16	28	-	3	3	-	-	-	-
Region 14 Upper Colorado	39	10,123	(D)	-	-	27	11	1	-	-	-
Region 15 Lower Colorado	35	9,828	17	-	-	4	18	13	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	1,301	106,565	26	741	154	91	219	96	23	7,154	18
Region 18 California	164	38,855	26	15	-	18	80	51	3	546	21
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	9	31	40	9	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Rice								Other small grains (barley, oats, rye, etc.) (see text)			
				Farms by acres harvested					Irrigated		Non-irrigated	
	Farms	Acres harvested	Average yield per acre (cwt)	1 to 99 acres	100 to 249 acres	250 to 499 acres	500 to 999 acres	1,000 acres or more	Farms	Acres harvested	Farms	Acres harvested
United States 2013	5,613	3,132,894	80	383	1,219	1,534	1,787	690	6,258	1,209,527	3,614	870,743
2008 [1]	5,265	2,683,363	70	425	1,329	1,614	1,234	663	(NA)	(NA)	(NA)	(NA)
2013 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	15	2,909
Alaska	-	-	-	-	-	-	-	-	-	-	1	(D)
Arizona	-	-	-	-	-	-	-	-	323	61,072	35	2,220
Arkansas	2,099	1,294,506	78	175	439	467	648	370	-	-	21	4,164
California	2,026	1,051,374	88	4	448	735	726	113	334	77,523	187	25,556
Colorado	-	-	-	-	-	-	-	-	242	58,106	31	8,760
Connecticut	-	-	-	-	-	-	-	-	-	-	7	21
Delaware	-	-	-	-	-	-	-	-	12	1,495	49	7,791
Florida	7	(D)	(D)	-	-	4	1	2	29	3,443	7	490
Georgia	-	-	-	-	-	-	-	-	50	3,615	64	10,570
Hawaii	2	(D)	(D)	2	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	1,452	442,001	211	95,452
Illinois	1	(D)	(D)	-	-	-	1	-	4	300	33	1,170
Indiana	-	-	-	-	-	-	-	-	5	32	23	2,000
Iowa	-	-	-	-	-	-	-	-	5	10	55	1,923
Kansas	-	-	-	-	-	-	-	-	100	13,669	131	139,035
Kentucky	-	-	-	-	-	-	-	-	7	42	39	861
Louisiana	716	448,885	73	61	122	159	239	135	-	-	1	(D)
Maine	-	-	-	-	-	-	-	-	2	(D)	13	6,622
Maryland	-	-	-	-	-	-	-	-	6	1,264	88	5,997
Massachusetts	-	-	-	-	-	-	-	-	-	-	10	250
Michigan	-	-	-	-	-	-	-	-	10	1,107	180	5,695
Minnesota	-	-	-	-	-	-	-	-	56	2,026	129	15,117
Mississippi	215	108,920	76	33	61	44	45	32	-	-	12	2,420
Missouri	260	133,780	74	51	46	68	57	38	-	-	59	584
Montana	-	-	-	-	-	-	-	-	1,114	242,871	355	172,720
Nebraska	-	-	-	-	-	-	-	-	103	14,904	627	223,537
Nevada	-	-	-	-	-	-	-	-	66	9,495	4	(D)
New Hampshire	-	-	-	-	-	-	-	-	1	(D)	3	3
New Jersey	-	-	-	-	-	-	-	-	-	-	19	830
New Mexico	-	-	-	-	-	-	-	-	177	11,704	-	-
New York	-	-	-	-	-	-	-	-	2	(D)	58	1,863
North Carolina	-	-	-	-	-	-	-	-	28	1,712	22	456
North Dakota	-	-	-	-	-	-	-	-	41	7,039	77	18,053
Ohio	-	-	-	-	-	-	-	-	-	-	63	426
Oklahoma	-	-	-	-	-	-	-	-	41	6,192	27	6,663
Oregon	-	-	-	-	-	-	-	-	113	14,907	52	6,640
Pennsylvania	-	-	-	-	-	-	-	-	3	105	197	5,921
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	15	756
South Dakota	-	-	-	-	-	-	-	-	22	1,149	52	6,035
Tennessee	1	(D)	(D)	1	-	-	-	-	1	(D)	14	65
Texas	286	85,752	65	56	103	57	70	-	282	91,518	100	19,598
Utah	-	-	-	-	-	-	-	-	1,007	43,757	62	3,442
Vermont	-	-	-	-	-	-	-	-	-	-	14	119
Virginia	-	-	-	-	-	-	-	-	-	-	50	6,599
Washington	-	-	-	-	-	-	-	-	139	21,409	40	2,978
West Virginia	-	-	-	-	-	-	-	-	3	3	-	-
Wisconsin	-	-	-	-	-	-	-	-	34	1,889	229	17,640
Wyoming	-	-	-	-	-	-	-	-	444	74,683	133	34,433
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	3	405	33	6,896
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	23	2,924	383	24,577
Region 03 South Atlantic-Gulf	7	(D)	(D)	-	-	4	1	2	107	8,770	125	17,475
Region 04 Great Lakes	-	-	-	-	-	-	-	-	17	1,209	351	17,532
Region 05 Ohio	-	-	-	-	-	-	-	-	10	(D)	118	1,842
Region 06 Tennessee	-	-	-	-	-	-	-	-	1	(D)	14	(D)
Region 07 Upper Mississippi	1	(D)	(D)	-	-	-	1	-	78	2,988	383	19,550
Region 08 Lower Mississippi	2,759	1,659,731	77	246	563	615	872	463	-	-	34	8,578
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	21	2,231	40	17,581
Region 10 Missouri	-	-	-	-	-	-	-	-	1,667	339,937	1,242	544,546
Region 11 Arkansas-White-Red	532	326,425	77	75	105	123	117	112	250	56,986	83	26,678
Region 12 Texas-Gulf	286	85,752	65	56	103	57	70	-	151	50,262	95	17,668
Region 13 Rio Grande	-	-	-	-	-	-	-	-	242	55,931	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	358	12,511	21	630
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	222	61,186	35	2,220
Region 16 Great Basin	-	-	-	-	-	-	-	-	1,140	80,268	115	17,096
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	1,626	449,786	353	120,248
Region 18 California	2,026	1,051,374	88	4	448	735	726	113	342	84,068	188	27,556
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	1	(D)
Region 20 Hawaii	2	(D)	(D)	2	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre [2] (tons, dry)	1 to 49 acres	50 to 99 acres	100 to 249 acres	250 to 499 acres	500 acres or more	Farms	Acres harvested	Average yield per acre [2] (tons, dry)
United States 2013	46,181	5,512,871	5.1	26,206	7,079	7,662	3,037	2,197	9,254	883,102	2.7
2008 [1]	48,315	6,187,983	4.5	25,184	8,331	9,095	3,228	2,477	10,191	1,144,932	2.2
2013 DATA											
Alabama	5	35	4.1	5	-	-	-	-	2	(D)	(D)
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,224	270,449	8.3	771	68	157	104	124	1	(D)	(D)
Arkansas	-	-	-	-	-	-	-	-	36	1,260	2.8
California	2,412	664,318	6.7	985	375	361	301	390	5	2,100	1.7
Colorado	6,561	558,389	3.7	3,942	1,124	1,094	207	194	208	14,790	2.1
Connecticut	-	-	-	-	-	-	-	-	10	197	4.0
Delaware	2	(D)	(D)	2	-	-	-	-	12	1,026	4.9
Florida	3	219	4.0	-	3	-	-	-	3	450	0.5
Georgia	4	48	8.0	4	-	-	-	-	1	(D)	(D)
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	7,118	872,207	5.3	4,204	780	1,311	492	331	357	48,091	1.1
Illinois	19	1,001	6.2	6	13	-	-	-	112	2,967	3.4
Indiana	50	2,943	5.5	36	5	7	2	-	171	9,055	3.9
Iowa	9	443	4.9	5	4	-	-	-	122	3,205	4.1
Kansas	524	152,293	5.8	75	214	106	67	62	911	115,347	3.4
Kentucky	5	50	5.6	5	-	-	-	-	98	1,452	4.4
Louisiana	-	-	-	-	-	-	-	-	-	-	-
Maine	1	(D)	(D)	1	-	-	-	-	4	1,640	1.0
Maryland	9	288	5.4	8	1	-	-	-	29	896	6.3
Massachusetts	-	-	-	-	-	-	-	-	6	714	2.8
Michigan	94	11,244	6.2	37	17	28	10	2	369	43,578	4.6
Minnesota	240	14,306	5.2	118	73	46	2	1	338	29,088	3.8
Mississippi	-	-	-	-	-	-	-	-	7	175	2.5
Missouri	8	352	6.0	8	-	-	-	-	164	2,713	4.1
Montana	3,354	549,849	3.7	1,400	529	791	397	237	660	113,504	1.2
Nebraska	3,234	237,544	5.3	1,367	1,054	682	100	31	3,070	222,716	3.2
Nevada	1,231	321,610	4.9	506	161	223	156	185	33	13,939	1.5
New Hampshire	-	-	-	-	-	-	-	-	1	(D)	(D)
New Jersey	17	230	1.6	17	-	-	-	-	26	578	4.7
New Mexico	3,767	195,157	5.1	3,082	261	246	115	63	41	6,764	1.1
New York	1	(D)	(D)	-	-	-	1	-	65	6,692	5.2
North Carolina	17	1,700	5.6	-	-	17	-	-	-	-	-
North Dakota	96	9,055	4.7	33	31	27	5	-	104	34,984	2.7
Ohio	5	255	5.1	4	-	1	-	-	140	2,954	3.7
Oklahoma	91	17,689	5.2	10	32	34	8	7	40	12,240	3.8
Oregon	2,406	317,447	4.7	1,159	453	513	149	132	166	13,441	2.3
Pennsylvania	41	763	5.5	38	-	3	-	-	503	8,128	5.8
Rhode Island	-	-	-	-	-	-	-	-	3	(D)	(D)
South Carolina	2	(D)	(D)	2	-	-	-	-	-	-	-
South Dakota	488	57,964	4.2	163	112	160	45	8	303	52,628	2.3
Tennessee	14	557	3.0	11	2	-	1	-	21	249	2.2
Texas	661	77,825	6.4	323	145	134	23	36	9	19,590	1.0
Utah	6,697	521,184	4.7	4,513	894	791	337	162	349	12,273	1.8
Vermont	-	-	-	-	-	-	-	-	12	174	2.9
Virginia	3	(D)	(D)	2	-	-	-	1	20	466	4.0
Washington	2,709	275,809	6.3	1,802	246	342	215	104	160	11,190	1.7
West Virginia	3	42	5.6	3	-	-	-	-	3	30	1.0
Wisconsin	201	21,513	5.6	111	31	39	15	5	453	48,483	3.8
Wyoming	2,855	355,859	3.7	1,448	451	549	285	122	106	22,665	1.3
Water Resources Regions											
Region 01 New England	1	(D)	(D)	1	-	-	-	-	36	2,925	1.9
Region 02 Mid-Atlantic	69	1,303	4.9	65	1	3	-	-	568	10,897	5.7
Region 03 South Atlantic-Gulf	32	3,744	3.4	11	3	17	-	1	11	835	1.5
Region 04 Great Lakes	176	16,981	6.3	102	20	33	17	4	669	72,802	4.4
Region 05 Ohio	36	2,094	(D)	28	2	4	2	-	313	9,694	3.9
Region 06 Tennessee	12	(D)	2.9	11	-	-	1	-	31	317	(D)
Region 07 Upper Mississippi	388	30,443	5.3	184	121	70	9	4	912	64,684	3.8
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	3	(D)	4.2
Region 09 Souris-Red-Rainy	60	5,985	5.4	22	14	19	5	-	66	7,900	3.6
Region 10 Missouri	10,886	1,242,994	4.2	4,758	2,581	2,329	817	401	4,805	483,737	2.5
Region 11 Arkansas-White-Red	2,077	331,698	4.5	992	434	383	115	153	589	94,400	3.2
Region 12 Texas-Gulf	529	50,475	5.6	281	110	111	10	17	16	19,637	1.0
Region 13 Rio Grande	3,784	267,899	4.8	2,924	267	317	169	107	28	7,499	1.1
Region 14 Upper Colorado	5,306	347,961	3.7	3,490	896	667	162	91	109	2,658	1.7
Region 15 Lower Colorado	1,386	296,553	8.1	849	74	213	114	136	1	(D)	(D)
Region 16 Great Basin	6,239	721,162	4.9	3,996	684	847	410	302	574	30,772	1.5
Region 17 Pacific Northwest	12,501	1,492,133	5.2	7,304	1,494	2,256	881	566	491	70,165	1.4
Region 18 California	2,699	700,959	6.6	1,188	378	393	325	415	32	3,690	1.1
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other hay (dry hay, greenchop, and silage)										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre [2] (tons, dry)	1 to 24 acres	25 to 49 acres	50 to 99 acres	100 to 249 acres	250 acres or more	Farms	Acres harvested	Average yield per acre [2] (tons, dry)
United States 2013	28,142	3,300,889	3.7	11,149	5,725	4,026	4,140	3,102	12,840	1,291,407	2.4
2008 [1]	29,553	3,351,986	2.8	12,439	5,299	4,303	4,389	3,123	15,645	1,505,343	1.7
2013 DATA											
Alabama	37	2,997	5.7	14	8	7	5	3	96	8,728	3.2
Alaska	2	(D)	(D)	1	-	-	-	1	14	504	1.8
Arizona	543	47,960	4.7	361	2	66	65	49	-	-	-
Arkansas	183	12,102	4.9	79	48	6	33	17	261	14,877	2.7
California	2,212	437,280	6.8	484	601	337	378	412	348	33,804	2.8
Colorado	4,314	427,628	2.8	2,024	857	529	479	425	563	83,513	1.6
Connecticut	6	39	4.0	6	-	-	-	-	42	2,665	3.6
Delaware	9	685	3.9	5	-	-	4	-	27	1,048	1.8
Florida	138	19,540	5.3	9	46	32	25	26	201	64,903	4.6
Georgia	219	22,954	4.9	42	98	27	26	26	237	29,325	5.6
Hawaii	2	(D)	(D)	1	-	-	-	1	-	-	-
Idaho	1,553	177,917	3.0	417	385	407	158	186	293	20,419	1.2
Illinois	-	-	-	-	-	-	-	-	66	2,016	3.3
Indiana	15	1,160	3.9	2	6	5	-	2	80	2,956	1.4
Iowa	6	60	4.5	6	-	-	-	-	87	1,354	2.4
Kansas	469	63,238	5.1	-	77	261	104	27	1,108	153,997	2.8
Kentucky	35	729	2.2	17	14	4	-	-	235	8,016	2.9
Louisiana	29	4,039	2.3	-	6	8	8	7	61	4,361	2.6
Maine	-	-	-	-	-	-	-	-	84	3,714	1.0
Maryland	5	106	2.8	2	3	-	-	-	78	3,337	4.5
Massachusetts	-	-	-	-	-	-	-	-	62	1,629	2.2
Michigan	3	220	4.0	-	-	2	1	-	169	8,333	2.7
Minnesota	30	2,450	4.8	11	1	13	-	5	258	11,772	2.6
Mississippi	23	335	2.5	12	11	-	-	-	103	12,105	2.5
Missouri	104	4,798	5.7	75	21	1	-	7	391	22,356	1.9
Montana	2,221	312,134	2.2	908	62	443	529	279	579	102,356	1.1
Nebraska	513	48,958	5.1	192	68	118	46	89	1,780	160,047	1.6
Nevada	695	115,056	2.9	312	53	47	171	112	42	11,995	1.7
New Hampshire	-	-	-	-	-	-	-	-	20	516	4.7
New Jersey	2	(D)	(D)	2	-	-	-	-	69	3,644	2.8
New Mexico	1,058	86,015	4.8	604	158	100	133	63	35	24,337	1.7
New York	11	330	1.7	6	4	-	1	-	153	8,826	1.8
North Carolina	293	16,688	4.5	66	133	54	30	10	369	20,624	3.1
North Dakota	10	632	3.8	-	7	-	3	-	86	23,561	1.7
Ohio	4	212	5.6	-	2	2	-	-	130	4,208	1.8
Oklahoma	359	40,701	5.4	71	82	71	90	45	271	32,395	1.8
Oregon	3,710	328,487	2.6	2,135	528	290	461	296	900	39,692	1.9
Pennsylvania	9	660	4.3	4	-	2	3	-	447	9,556	7.3
Rhode Island	-	-	-	-	-	-	-	-	19	309	2.5
South Carolina	80	1,386	5.2	67	7	2	4	-	173	9,560	2.8
South Dakota	32	3,386	2.7	3	15	3	5	6	206	32,930	1.9
Tennessee	41	1,064	3.9	33	4	-	4	-	179	9,169	3.4
Texas	3,097	375,908	4.8	751	1,023	544	388	391	1,455	215,907	2.9
Utah	2,407	160,211	3.3	1,143	570	252	323	119	159	7,169	1.9
Vermont	-	-	-	-	-	-	-	-	34	1,105	2.8
Virginia	14	140	4.0	14	-	-	-	-	126	9,972	2.9
Washington	1,687	125,011	5.3	844	406	126	202	109	230	14,875	2.1
West Virginia	3	45	4.0	3	-	-	-	-	47	1,563	1.6
Wisconsin	47	4,618	4.0	13	5	19	9	1	265	10,740	2.5
Wyoming	1,912	452,370	1.8	410	414	248	452	388	202	40,619	0.9
Water Resources Regions											
Region 01 New England	6	39	4.0	6	-	-	-	-	247	9,613	2.3
Region 02 Mid-Atlantic	45	1,721	3.8	33	3	2	7	-	730	24,571	4.3
Region 03 South Atlantic-Gulf	782	63,586	5.0	204	303	122	88	65	1,147	143,473	4.3
Region 04 Great Lakes	23	1,830	3.8	-	6	13	2	2	368	17,574	2.4
Region 05 Ohio	40	1,196	3.8	16	13	11	-	-	501	18,606	2.9
Region 06 Tennessee	45	1,477	3.4	30	9	-	6	-	174	6,035	3.6
Region 07 Upper Mississippi	74	5,992	4.2	30	10	21	9	4	665	29,260	2.4
Region 08 Lower Mississippi	107	8,251	4.6	51	20	7	13	16	174	13,442	2.4
Region 09 Souris-Red-Rainy	2	(D)	(D)	-	-	-	-	2	52	5,915	1.8
Region 10 Missouri	5,017	718,216	2.4	1,947	756	716	920	678	4,125	497,032	1.8
Region 11 Arkansas-White-Red	1,680	279,720	5.2	177	423	402	421	257	1,356	168,640	2.1
Region 12 Texas-Gulf	2,720	267,647	4.7	772	1,010	411	255	272	1,132	193,780	2.8
Region 13 Rio Grande	1,066	90,804	3.7	591	129	106	131	109	18	5,670	1.7
Region 14 Upper Colorado	3,417	428,570	2.3	1,289	730	470	544	384	193	24,754	1.6
Region 15 Lower Colorado	605	52,972	4.6	389	12	75	77	52	-	-	-
Region 16 Great Basin	2,463	244,330	3.1	1,254	331	321	312	245	348	26,457	1.7
Region 17 Pacific Northwest	7,676	667,604	3.2	3,871	1,348	939	950	568	1,245	71,992	1.8
Region 18 California	2,370	465,758	6.5	487	622	410	405	446	351	34,089	2.8
Region 19 Alaska	2	(D)	(D)	1	-	-	-	1	14	504	1.8
Region 20 Hawaii	2	(D)	(D)	1	-	-	-	1	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Peanuts for nuts										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (pounds)	1 to 49 acres	50 to 99 acres	100 to 249 acres	250 to 499 acres	500 acres or more	Farms	Acres harvested	Average yield per acre (pounds)
United States 2013	1,605	371,634	4,533	167	353	689	240	156	953	186,759	3,985
2008 [1]	2,535	540,577	4,187	424	498	724	704	185	1,071	192,769	3,356
2013 DATA											
Alabama	29	5,344	4,608	6	8	8	5	2	56	20,270	3,367
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-
Arkansas	14	6,726	3,840	1	-	-	12	1	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-
Florida	77	23,997	4,613	-	26	32	7	12	68	22,772	3,998
Georgia	877	199,212	4,955	128	176	327	142	104	564	99,116	4,215
Hawaii	7	7	4,576	7	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Illinois	-	-	-	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Louisiana	9	1,731	4,277	-	-	6	3	-	1	(D)	(D)
Maine	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-
Mississippi	25	6,684	3,653	-	4	9	10	2	68	8,027	3,597
Missouri	3	240	2,500	-	3	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-
New Mexico	10	3,235	3,009	-	-	3	7	-	-	-	-
New York	-	-	-	-	-	-	-	-	-	-	-
North Carolina	41	4,541	4,764	3	22	12	3	1	47	10,886	4,265
North Dakota	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	78	10,231	4,066	13	13	43	9	-	3	915	4,034
Oregon	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	70	12,181	4,357	5	20	36	7	2	66	17,811	4,047
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-
Texas	358	97,053	3,872	-	81	210	35	32	68	5,629	1,741
Utah	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Virginia	7	452	4,352	4	-	3	-	-	12	(D)	(D)
Washington	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	7	(D)	(D)
Region 03 South Atlantic-Gulf	1,101	245,727	4,880	146	252	418	164	121	853	174,162	4,075
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	2	(D)	(D)
Region 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-
Region 08 Lower Mississippi	36	(D)	(D)	1	4	15	13	3	20	5,110	3,396
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	100	15,600	3,934	13	22	43	21	1	3	915	4,034
Region 12 Texas-Gulf	360	98,978	3,843	-	75	213	41	31	68	5,629	1,741
Region 13 Rio Grande	1	(D)	(D)	-	-	-	1	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	7	7	4,576	7	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All cotton										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (lbs, lint)	1 to 99 acres	100 to 249 acres	250 to 499 acres	500 to 999 acres	1,000 acres or more	Farms	Acres harvested	Average yield per acre (lbs, lint)
United States 2013	6,804	2,954,457	1,172	1,299	1,747	1,990	1,148	620	3,440	1,807,677	595
2008 [1]	6,612	3,123,664	1,103	1,137	1,937	1,514	1,295	729	3,766	1,658,924	558
2013 DATA											
Alabama	55	11,987	1,113	13	29	9	2	2	83	46,651	886
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	368	171,902	1,506	96	97	76	60	39	-	-	-
Arkansas	323	246,842	1,197	52	27	88	72	84	79	19,303	856
California	464	274,834	1,841	80	86	193	59	46	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-
Florida	50	16,951	971	20	16	7	2	5	106	24,773	790
Georgia	1,037	362,308	1,026	194	369	270	126	78	938	380,762	811
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Illinois	8	286	1,473	6	2	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	45	13,478	1,101	-	7	36	1	1	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Louisiana	67	35,673	1,361	4	18	21	18	6	70	40,057	1,262
Maine	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-
Mississippi	259	124,596	1,321	36	62	68	65	28	227	77,538	1,259
Missouri	220	180,128	1,008	24	40	36	49	71	100	24,432	847
Montana	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-
New Mexico	145	30,931	1,662	70	48	6	18	3	3	465	400
New York	-	-	-	-	-	-	-	-	-	-	-
North Carolina	56	13,257	1,081	10	34	6	5	1	87	56,245	813
North Dakota	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	120	26,436	1,030	26	56	24	14	-	46	11,834	429
Oregon	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	69	15,637	912	18	34	12	1	4	108	53,559	740
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Tennessee	34	11,327	1,088	7	9	11	5	2	71	63,547	887
Texas	3,484	1,417,884	1,037	643	813	1,127	651	250	1,517	1,005,292	368
Utah	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	5	3,219	1,024
Washington	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	2	(D)	(D)
Region 03 South Atlantic-Gulf	1,294	424,199	1,026	274	491	301	136	92	1,346	566,966	829
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	20	2,649	1,314	6	11	3	-	-	36	(D)	(D)
Region 07 Upper Mississippi	8	286	1,473	6	2	-	-	-	-	-	-
Region 08 Lower Mississippi	836	587,391	1,170	86	133	220	209	188	482	197,426	1,039
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	837	288,674	1,192	105	253	370	70	39	226	109,250	382
Region 12 Texas-Gulf	2,631	1,174,298	1,007	363	631	822	607	208	1,348	910,649	369
Region 13 Rio Grande	346	30,224	1,464	283	43	5	7	8	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	373	175,902	1,506	96	97	76	65	39	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	459	270,834	1,847	80	86	193	54	46	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in vegetables								
	Irrigated							Non-irrigated	
			Farms by acres harvested						
	Farms	Acres harvested	Less than 5.0 acres	5.0 to 24.9 acres	25.0 to 99.9 acres	100.0 to 249.9 acres	250.0 acres or more	Farms	Acres harvested
United States 2013	24,157	2,993,600	15,026	3,583	1,792	1,496	2,260	4,824	190,232
2008 [1]	16,899	3,084,879	6,774	3,200	2,601	1,599	2,725	2,854	145,704
2013 DATA									
Alabama	264	5,947	149	83	24	5	3	83	1,177
Alaska	71	453	64	3	3	1	-	11	95
Arizona	595	102,972	381	169	2	6	37	-	-
Arkansas	251	7,692	130	95	19	-	7	16	2,986
California	3,374	1,018,036	2,162	179	87	235	711	34	203
Colorado	351	91,613	150	19	31	54	97	13	16
Connecticut	269	1,460	205	63	-	-	1	96	3,722
Delaware	109	15,930	46	2	24	23	14	14	2,068
Florida	537	170,941	296	24	33	39	145	181	12,763
Georgia	558	94,985	257	67	77	91	66	118	7,445
Hawaii	334	6,788	218	81	31	2	2	22	29
Idaho	848	381,698	42	101	98	266	341	4	32
Illinois	331	26,683	166	59	49	38	19	149	3,433
Indiana	326	11,312	206	65	17	24	14	195	4,634
Iowa	226	1,691	180	39	4	2	1	114	721
Kansas	235	4,139	173	-	55	3	4	38	63
Kentucky	424	2,007	323	87	14	-	-	109	1,443
Louisiana	186	3,186	117	35	28	3	3	56	3,906
Maine	312	6,896	228	61	7	7	9	157	15,137
Maryland	337	14,678	165	86	44	25	17	92	1,863
Massachusetts	312	8,290	155	84	59	7	7	198	3,054
Michigan	954	80,931	523	216	87	65	63	354	19,026
Minnesota	460	46,410	197	89	84	56	34	183	10,070
Mississippi	188	371	152	36	-	-	-	-	-
Missouri	509	14,859	412	69	14	10	4	144	403
Montana	366	5,269	324	27	5	4	6	-	-
Nebraska	233	10,172	213	8	-	-	12	22	3,372
Nevada	103	8,632	36	-	53	10	4	-	-
New Hampshire	210	2,580	142	49	10	8	1	68	709
New Jersey	535	31,606	225	118	110	48	34	139	6,960
New Mexico	1,049	23,508	988	26	10	15	10	-	-
New York	686	25,878	326	195	84	67	14	245	25,970
North Carolina	760	17,507	568	107	45	28	12	287	8,065
North Dakota	65	29,283	25	7	-	7	26	16	5,158
Ohio	550	19,415	362	119	42	10	17	232	4,179
Oklahoma	274	3,617	170	59	41	3	1	41	98
Oregon	916	122,258	436	119	134	107	120	27	10,117
Pennsylvania	1,512	11,474	944	485	73	6	4	670	9,057
Rhode Island	109	442	101	7	-	1	-	12	(D)
South Carolina	321	15,032	245	44	9	7	16	105	2,629
South Dakota	82	233	71	11	-	-	-	51	523
Tennessee	284	6,955	191	67	17	4	5	66	2,584
Texas	943	63,021	746	8	86	37	66	8	48
Utah	204	3,845	146	15	32	9	2	-	-
Vermont	204	1,306	150	39	14	1	-	92	(D)
Virginia	353	7,432	153	151	28	18	3	85	4,504
Washington	1,271	269,346	919	36	49	89	178	15	370
West Virginia	95	424	80	11	4	-	-	23	240
Wisconsin	643	193,310	343	63	55	55	127	232	9,907
Wyoming	28	1,088	25	-	-	-	3	7	700
Water Resources Regions									
Region 01 New England	1,255	19,897	865	272	76	24	18	557	22,796
Region 02 Mid-Atlantic	3,057	94,872	1,530	944	329	174	80	935	30,094
Region 03 South Atlantic-Gulf	2,483	303,638	1,531	355	188	167	242	691	34,357
Region 04 Great Lakes	1,838	144,719	1,070	399	157	109	103	838	40,286
Region 05 Ohio	1,279	27,432	929	252	60	14	24	541	9,584
Region 06 Tennessee	397	4,868	297	77	12	7	4	160	1,878
Region 07 Upper Mississippi	1,484	214,082	800	216	178	140	150	560	19,903
Region 08 Lower Mississippi	306	26,389	179	38	61	13	15	47	9,125
Region 09 Souris-Red-Rainy	81	23,151	51	-	12	-	18	27	5,557
Region 10 Missouri	1,082	59,791	883	108	2	42	47	251	5,592
Region 11 Arkansas-White-Red	862	21,663	556	163	106	29	8	98	212
Region 12 Texas-Gulf	909	50,049	723	8	86	34	58	-	-
Region 13 Rio Grande	901	68,694	771	26	11	18	75	-	-
Region 14 Upper Colorado	424	20,434	346	31	24	-	23	6	2
Region 15 Lower Colorado	476	102,685	267	157	9	6	37	-	-
Region 16 Great Basin	318	27,034	182	8	74	19	35	-	-
Region 17 Pacific Northwest	3,183	752,220	1,585	266	283	447	602	46	10,519
Region 18 California	3,417	1,024,741	2,179	179	90	250	719	34	203
Region 19 Alaska	71	453	64	3	3	1	-	11	95
Region 20 Hawaii	334	6,788	218	81	31	2	2	22	29

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sweet corn										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt)	Less than 5.0 acres	5.0 to 24.9 acres	25.0 to 49.9 acres	50.0 to 99.9 acres	100.0 acres or more	Farms	Acres harvested	Average yield per acre (cwt)
United States 2013	5,923	321,992	207	3,689	1,022	285	269	658	1,732	42,300	124
2008 [1]	4,341	294,855	(NA)	2,445	810	270	263	553	844	18,681	(NA)
2013 DATA											
Alabama	81	633	139	61	15	4	-	1	18	40	42
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	385	1,382	49	232	152	1	-	-	-	-	-
Arkansas	43	2,944	80	36	-	-	-	7	-	-	-
California	113	28,420	412	54	13	-	-	46	2	(D)	(D)
Colorado	61	4,619	105	21	-	20	-	20	-	-	-
Connecticut	21	74	105	14	7	-	-	-	39	930	97
Delaware	40	7,563	149	9	2	2	6	21	1	(D)	(D)
Florida	40	22,286	231	17	-	-	7	16	2	(D)	(D)
Georgia	139	16,980	330	71	41	-	8	19	9	1,765	128
Hawaii	8	(D)	(D)	7	-	-	-	1	-	-	-
Idaho	173	10,232	192	9	89	13	15	47	-	-	-
Illinois	105	7,087	163	48	17	8	9	23	51	906	75
Indiana	95	1,114	190	80	10	-	2	3	90	759	106
Iowa	53	406	140	40	10	-	3	-	36	175	45
Kansas	111	606	150	56	55	-	-	-	8	8	137
Kentucky	89	294	122	84	-	5	-	-	60	795	72
Louisiana	21	7	192	21	-	-	-	-	-	-	-
Maine	64	451	155	52	9	-	2	1	19	54	87
Maryland	109	4,880	94	40	24	9	17	19	18	438	73
Massachusetts	144	3,089	174	35	57	30	22	-	56	1,681	158
Michigan	266	7,998	86	193	55	2	2	14	163	1,672	115
Minnesota	149	9,195	165	30	22	19	49	29	77	2,690	125
Mississippi	80	56	190	80	-	-	-	-	-	-	-
Missouri	192	314	362	180	12	-	-	-	64	57	19
Montana	54	132	105	44	10	-	-	-	-	-	-
Nebraska	31	2,628	190	22	-	-	-	9	-	-	-
Nevada	10	600	190	-	-	-	10	-	-	-	-
New Hampshire	57	1,081	169	30	8	8	11	-	36	342	100
New Jersey	171	3,695	141	58	57	34	15	7	31	670	52
New Mexico	200	316	156	200	-	-	-	-	-	-	-
New York	241	7,317	99	96	69	12	18	46	95	11,759	126
North Carolina	167	1,859	242	126	28	-	7	6	124	1,448	197
North Dakota	26	14	195	26	-	-	-	-	-	-	-
Ohio	134	6,748	162	75	19	21	-	19	145	1,706	96
Oklahoma	3	285	190	-	-	-	3	-	-	-	-
Oregon	645	34,173	193	415	34	71	23	102	5	1	137
Pennsylvania	371	2,412	157	225	126	16	4	-	372	3,055	99
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
South Carolina	122	1,741	56	105	16	-	-	1	-	-	-
South Dakota	46	35	84	46	-	-	-	-	34	140	70
Tennessee	111	797	(D)	107	3	-	-	1	26	70	127
Texas	182	189	70	181	-	-	-	1	-	-	-
Utah	120	612	60	119	-	-	-	1	-	-	-
Vermont	62	125	77	62	-	-	-	-	28	215	72
Virginia	69	404	190	43	22	-	4	-	31	167	20
Washington	182	68,424	198	64	6	3	8	101	3	18	127
West Virginia	28	(D)	68	27	1	-	-	-	14	9	128
Wisconsin	305	57,457	184	144	33	7	24	97	68	2,315	171
Wyoming	4	(Z)	(D)	4	-	-	-	-	7	700	127
Water Resources Regions											
Region 01 New England	307	4,716	170	152	81	38	35	1	158	3,070	130
Region 02 Mid-Atlantic	877	24,835	126	398	267	67	54	91	420	11,790	115
Region 03 South Atlantic-Gulf	549	43,462	262	380	100	4	22	43	79	9,443	135
Region 04 Great Lakes	583	27,713	149	404	103	17	16	43	346	7,629	129
Region 05 Ohio	315	8,337	162	232	40	22	-	21	304	3,424	86
Region 06 Tennessee	173	187	176	172	1	-	-	-	107	1,435	193
Region 07 Upper Mississippi	542	55,840	179	249	58	29	83	123	175	4,150	122
Region 08 Lower Mississippi	44	3,498	152	35	1	-	-	8	-	-	-
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	20	(D)	(D)
Region 10 Missouri	256	2,987	204	235	12	-	-	9	113	900	112
Region 11 Arkansas-White-Red	176	1,059	155	118	55	-	3	-	-	-	-
Region 12 Texas-Gulf	182	(D)	(D)	181	-	-	-	1	-	-	-
Region 13 Rio Grande	69	119	155	69	-	-	-	-	-	-	-
Region 14 Upper Colorado	310	5,147	103	258	12	20	-	20	-	-	-
Region 15 Lower Colorado	259	1,034	49	118	140	1	-	-	-	-	-
Region 16 Great Basin	131	1,214	124	120	-	-	10	1	-	-	-
Region 17 Pacific Northwest	1,027	112,706	196	507	139	87	46	248	8	19	127
Region 18 California	115	28,660	410	54	13	-	-	48	2	(D)	(D)
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	8	(D)	(D)	7	-	-	-	1	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Tomatoes										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt)	Less than 5.0 acres	5.0 to 24.9 acres	25.0 to 49.9 acres	50.0 to 99.9 acres	100.0 acres or more	Farms	Acres harvested	Average yield per acre (cwt)
United States 2013	10,496	358,985	798	9,459	445	69	65	458	641	6,926	336
2008 [1]	5,937	305,565	(NA)	4,717	517	175	100	428	581	2,026	(NA)
2013 DATA											
Alabama	133	1,611	384	104	17	-	7	5	11	3	252
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	133	67	100	133	-	-	-	-	-	-	-
Arkansas	97	1,430	149	90	-	-	-	7	-	-	-
California	1,036	283,287	882	637	11	18	23	347	16	23	75
Colorado	115	104	510	115	-	-	-	-	6	1	252
Connecticut	174	139	403	172	2	-	-	-	29	104	252
Delaware	29	16	703	29	-	-	-	-	-	-	-
Florida	171	47,439	559	109	8	-	-	54	7	3,500	252
Georgia	143	2,093	479	115	-	19	5	4	7	7	252
Hawaii	46	(D)	(D)	41	4	-	-	1	-	-	-
Idaho	25	18	293	25	-	-	-	-	-	-	-
Illinois	190	217	303	185	5	-	-	-	38	32	246
Indiana	150	2,993	502	132	6	-	-	12	45	420	157
Iowa	98	35	312	98	-	-	-	-	6	1	140
Kansas	110	70	261	110	-	-	-	-	7	2	200
Kentucky	256	501	549	234	15	7	-	-	6	18	150
Louisiana	79	(D)	(D)	62	17	-	-	-	-	-	-
Maine	94	53	145	94	-	-	-	-	8	8	252
Maryland	177	224	237	168	8	1	-	-	8	4	252
Massachusetts	243	447	300	207	36	-	-	-	34	21	170
Michigan	396	1,429	714	379	12	-	-	5	92	272	361
Minnesota	106	62	379	106	-	-	-	-	10	6	477
Mississippi	125	122	703	125	-	-	-	-	-	-	-
Missouri	328	214	299	328	-	-	-	-	5	3	122
Montana	122	30	120	122	-	-	-	-	-	-	-
Nebraska	165	54	306	165	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	134	256	433	117	17	-	-	-	14	28	252
New Jersey	315	1,254	268	244	61	5	5	-	12	535	562
New Mexico	640	211	282	640	-	-	-	-	-	-	-
New York	344	816	263	302	40	-	2	-	43	126	(D)
North Carolina	397	2,503	123	358	30	-	-	9	20	4	252
North Dakota	26	6	388	26	-	-	-	-	-	-	-
Ohio	289	2,358	392	236	33	3	16	1	41	196	325
Oklahoma	90	69	702	90	-	-	-	-	-	-	-
Oregon	466	196	231	450	16	-	-	-	5	1	252
Pennsylvania	892	1,202	462	842	49	-	-	1	47	(D)	(D)
Rhode Island	72	33	685	72	-	-	-	-	-	-	-
South Carolina	198	2,864	298	180	5	7	-	6	-	-	-
South Dakota	35	6	273	35	-	-	-	-	35	158	252
Tennessee	197	2,390	363	179	5	2	5	6	8	5	252
Texas	563	299	97	557	6	-	-	-	8	1	252
Utah	146	92	703	138	8	-	-	-	-	-	-
Vermont	44	9	183	44	-	-	-	-	16	44	44
Virginia	185	708	383	156	20	7	2	-	22	(D)	252
Washington	469	112	338	463	6	-	-	-	-	-	-
West Virginia	39	26	200	38	1	-	-	-	5	5	252
Wisconsin	206	85	263	199	7	-	-	-	30	669	252
Wyoming	8	1	702	8	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	743	932	357	688	55	-	-	-	92	161	242
Region 02 Mid-Atlantic	1,639	3,626	344	1,472	146	13	7	1	93	1,272	713
Region 03 South Atlantic-Gulf	1,129	55,621	527	965	51	26	12	75	45	3,514	252
Region 04 Great Lakes	743	3,749	513	669	52	3	13	6	161	1,274	282
Region 05 Ohio	722	1,794	389	661	45	7	6	3	87	425	153
Region 06 Tennessee	216	3,242	282	182	21	2	2	9	5	3	252
Region 07 Upper Mississippi	580	2,806	509	564	7	-	-	9	76	91	261
Region 08 Lower Mississippi	156	1,712	173	130	17	-	2	7	-	-	-
Region 09 Souris-Red-Rainy	45	26	(D)	45	-	-	-	-	-	-	-
Region 10 Missouri	589	284	352	589	-	-	-	-	47	160	252
Region 11 Arkansas-White-Red	356	(D)	387	356	-	-	-	-	8	1	252
Region 12 Texas-Gulf	540	293	97	534	6	-	-	-	-	-	-
Region 13 Rio Grande	587	202	286	587	-	-	-	-	-	-	-
Region 14 Upper Colorado	32	15	557	32	-	-	-	-	6	1	252
Region 15 Lower Colorado	140	74	157	140	-	-	-	-	-	-	-
Region 16 Great Basin	139	85	703	131	8	-	-	-	-	-	-
Region 17 Pacific Northwest	1,052	343	257	1,030	22	-	-	-	5	1	252
Region 18 California	1,042	283,296	882	643	11	18	23	347	16	23	75
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	46	(D)	(D)	41	4	-	-	1	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Lettuce and romaine										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt)	Less than 5.0 acres	5.0 to 24.9 acres	25.0 to 49.9 acres	50.0 to 99.9 acres	100.0 acres or more	Farms	Acres harvested	Average yield per acre (cwt)
United States 2013	5,052	264,154	415	4,665	139	7	14	227	296	372	90
2008 [1]	2,203	255,880	(NA)	1,657	83	25	176	262	51	340	(NA)
2013 DATA											
Alabama	15	33	153	15	-	-	-	-	3	3	90
Alaska	19	25	306	18	1	-	-	-	-	-	-
Arizona	161	47,344	297	133	-	-	-	28	-	-	-
Arkansas	12	8	409	12	-	-	-	-	-	-	-
California	261	197,716	457	77	6	-	1	177	-	-	-
Colorado	53	6,814	352	44	-	-	-	9	6	1	90
Connecticut	133	70	328	133	-	-	-	-	21	4	90
Delaware	19	6	352	19	-	-	-	-	-	-	-
Florida	125	7,913	175	111	-	-	6	8	-	-	-
Georgia	42	24	309	42	-	-	-	-	-	-	-
Hawaii	70	175	242	62	7	-	1	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Illinois	97	73	455	97	-	-	-	-	17	6	90
Indiana	31	55	409	26	5	-	-	-	17	32	94
Iowa	41	7	394	41	-	-	-	-	5	1	90
Kansas	8	1	409	8	-	-	-	-	8	1	90
Kentucky	52	15	354	52	-	-	-	-	6	1	(D)
Louisiana	35	4	382	35	-	-	-	-	-	-	-
Maine	96	86	159	94	2	-	-	-	11	2	83
Maryland	78	19	387	78	-	-	-	-	9	3	90
Massachusetts	159	361	103	131	28	-	-	-	28	28	90
Michigan	209	90	355	209	-	-	-	-	25	41	90
Minnesota	76	12	280	76	-	-	-	-	5	(D)	90
Mississippi	84	18	364	84	-	-	-	-	-	-	-
Missouri	65	18	363	65	-	-	-	-	-	-	-
Montana	44	7	368	44	-	-	-	-	-	-	-
Nebraska	25	(D)	400	25	-	-	-	-	-	-	-
Nevada	18	9	409	18	-	-	-	-	-	-	-
New Hampshire	104	33	148	104	-	-	-	-	-	-	-
New Jersey	113	876	428	88	15	4	3	3	2	(D)	(D)
New Mexico	207	254	353	197	9	-	-	1	-	-	-
New York	170	531	456	151	16	-	3	-	30	159	90
North Carolina	195	274	294	190	5	-	-	-	-	-	-
North Dakota	19	(D)	240	19	-	-	-	-	-	-	-
Ohio	111	193	192	110	-	-	-	1	33	4	90
Oklahoma	50	24	352	50	-	-	-	-	-	-	-
Oregon	415	190	145	406	6	3	-	-	5	1	90
Pennsylvania	241	348	212	216	25	-	-	-	30	45	82
Rhode Island	57	27	355	57	-	-	-	-	-	-	-
South Carolina	74	27	224	74	-	-	-	-	-	-	-
South Dakota	18	3	403	18	-	-	-	-	-	-	-
Tennessee	72	33	372	72	-	-	-	-	-	-	-
Texas	354	86	190	354	-	-	-	-	-	-	-
Utah	21	8	362	21	-	-	-	-	-	-	-
Vermont	110	97	276	109	1	-	-	-	13	23	90
Virginia	103	88	135	96	7	-	-	-	7	4	90
Washington	493	117	214	487	6	-	-	-	-	-	-
West Virginia	19	12	388	19	-	-	-	-	5	5	90
Wisconsin	74	23	225	74	-	-	-	-	10	8	90
Wyoming	4	1	352	4	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	584	610	160	553	31	-	-	-	61	50	90
Region 02 Mid-Atlantic	584	1,488	363	517	57	4	3	3	65	175	90
Region 03 South Atlantic-Gulf	524	8,289	179	505	5	-	6	8	3	3	90
Region 04 Great Lakes	403	671	365	393	6	-	3	1	52	51	90
Region 05 Ohio	225	88	310	225	-	-	-	-	59	76	87
Region 06 Tennessee	84	25	369	84	-	-	-	-	-	-	-
Region 07 Upper Mississippi	266	161	396	261	5	-	-	-	32	15	90
Region 08 Lower Mississippi	59	13	369	59	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	6	2	200	6	-	-	-	-	-	-	-
Region 10 Missouri	152	1,829	353	148	-	-	-	4	13	1	90
Region 11 Arkansas-White-Red	126	47	359	126	-	-	-	-	-	-	-
Region 12 Texas-Gulf	354	86	190	354	-	-	-	-	-	-	-
Region 13 Rio Grande	169	5,245	352	154	9	-	-	6	-	-	-
Region 14 Upper Colorado	38	13	379	38	-	-	-	-	6	1	90
Region 15 Lower Colorado	161	47,344	297	133	-	-	-	28	-	-	-
Region 16 Great Basin	39	17	386	39	-	-	-	-	-	-	-
Region 17 Pacific Northwest	922	310	173	907	12	3	-	-	5	1	90
Region 18 California	267	197,717	457	83	6	-	1	177	-	-	-
Region 19 Alaska	19	25	306	18	1	-	-	-	-	-	-
Region 20 Hawaii	70	175	242	62	7	-	1	-	-	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Potatoes, excluding sweet potatoes										
	Irrigated								Non-irrigated		
				Farms by acres harvested							
	Farms	Acres harvested	Average yield per acre (cwt)	Less than 15.0 acres	15.0 to 99.9 acres	100.0 to 249.9 acres	250.0 to 499.9 acres	500.0 acres or more	Farms	Acres harvested	Average yield per acre (cwt)
United States 2013	5,596	903,297	408	4,199	171	472	301	453	805	21,279	242
2008 [1]	3,727	974,606	(NA)	1,996	438	424	328	541	447	13,653	(NA)
2013 DATA											
Alabama	35	28	171	35	-	-	-	-	23	51	247
Alaska	32	204	375	28	3	1	-	-	6	70	100
Arizona	139	3,303	219	133	-	4	-	2	-	-	-
Arkansas	42	7	200	42	-	-	-	-	6	1	256
California	163	63,101	455	60	5	48	20	30	-	-	-
Colorado	119	50,340	374	44	1	12	21	41	6	1	256
Connecticut	73	(D)	200	73	-	-	-	-	7	(D)	256
Delaware	25	1,070	214	17	2	5	1	-	-	-	-
Florida	53	22,742	203	26	-	-	7	20	9	1	256
Georgia	47	31,217	393	42	-	-	-	5	21	91	251
Hawaii	-	-	-	-	-	-	-	-	6	1	256
Idaho	586	345,444	402	9	44	216	129	188	-	-	-
Illinois	85	5,428	382	79	1	-	-	5	31	557	205
Indiana	44	835	301	36	6	1	1	-	37	337	255
Iowa	66	618	232	63	1	1	1	-	16	4	194
Kansas	13	1,271	310	8	-	1	4	-	8	2	256
Kentucky	76	42	187	76	-	-	-	-	27	30	256
Louisiana	36	56	200	36	-	-	-	-	-	-	-
Maine	98	3,634	310	83	5	4	5	1	21	6,065	273
Maryland	113	626	253	106	4	3	-	-	16	71	280
Massachusetts	100	140	(D)	100	-	-	-	-	21	21	(D)
Michigan	340	33,727	364	271	6	47	7	9	29	751	266
Minnesota	134	24,604	382	99	12	8	4	11	22	3,676	255
Mississippi	49	100	200	49	-	-	-	-	-	-	-
Missouri	96	10,642	300	90	2	-	-	4	15	3	162
Montana	160	3,601	322	150	-	4	4	2	-	-	-
Nebraska	19	(D)	(D)	16	-	-	2	1	8	4	256
Nevada	19	(D)	(D)	18	-	-	-	1	-	-	-
New Hampshire	55	9	232	55	-	-	-	-	22	27	254
New Jersey	99	1,147	231	93	2	3	1	-	11	950	199
New Mexico	168	(D)	(D)	166	-	-	-	2	-	-	-
New York	165	3,848	332	136	19	5	5	-	42	2,118	316
North Carolina	77	24	189	77	-	-	-	-	26	27	256
North Dakota	64	28,234	400	32	-	7	9	16	4	4,551	158
Ohio	89	883	351	87	-	-	2	-	67	60	232
Oklahoma	110	480	261	109	-	-	1	-	-	-	-
Oregon	482	35,502	344	407	8	38	12	17	5	1	256
Pennsylvania	324	1,104	303	311	12	-	1	-	121	1,177	266
Rhode Island	30	(D)	(D)	28	1	1	-	-	12	(D)	(D)
South Carolina	28	38	116	28	-	-	-	-	-	-	-
South Dakota	52	12	338	52	-	-	-	-	-	-	-
Tennessee	38	18	172	38	-	-	-	-	8	7	258
Texas	26	9,064	458	22	1	-	-	3	8	2	256
Utah	24	821	360	21	-	2	-	1	-	-	-
Vermont	66	66	227	66	-	-	-	-	22	41	319
Virginia	71	2,070	296	63	-	6	-	2	32	122	292
Washington	592	136,150	512	438	20	39	40	55	8	22	230
West Virginia	27	13	175	27	-	-	-	-	18	12	256
Wisconsin	243	65,708	410	150	16	16	24	37	64	364	248
Wyoming	4	(Z)	337	4	-	-	-	-	-	-	-
Water Resources Regions											
Region 01 New England	377	4,057	299	360	6	5	5	1	93	6,196	272
Region 02 Mid-Atlantic	680	9,230	291	616	34	20	8	2	171	2,793	276
Region 03 South Atlantic-Gulf	258	54,131	312	226	-	-	7	25	76	166	251
Region 04 Great Lakes	546	45,802	372	446	16	51	16	17	109	2,106	275
Region 05 Ohio	241	1,551	323	235	2	1	3	-	167	847	256
Region 06 Tennessee	55	24	177	55	-	-	-	-	18	11	256
Region 07 Upper Mississippi	445	76,604	398	332	29	23	20	41	80	4,502	249
Region 08 Lower Mississippi	47	10,545	300	43	-	-	-	4	-	-	-
Region 09 Souris-Red-Rainy	43	22,434	399	25	-	-	6	12	4	4,551	158
Region 10 Missouri	268	30,887	391	230	2	11	9	16	37	10	230
Region 11 Arkansas-White-Red	201	9,903	445	193	-	1	5	2	19	4	215
Region 12 Texas-Gulf	9	(D)	(D)	7	1	-	-	1	-	-	-
Region 13 Rio Grande	236	42,095	378	166	1	12	21	36	-	-	-
Region 14 Upper Colorado	161	(D)	(D)	159	-	-	-	2	6	1	256
Region 15 Lower Colorado	25	3,269	219	19	-	4	-	2	-	-	-
Region 16 Great Basin	64	19,111	379	32	-	2	23	7	-	-	-
Region 17 Pacific Northwest	1,719	496,831	429	967	69	276	155	252	13	23	231
Region 18 California	189	69,551	445	60	8	65	23	33	-	-	-
Region 19 Alaska	32	204	375	28	3	1	-	-	6	70	100
Region 20 Hawaii	-	-	-	-	-	-	-	-	6	1	256

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in orchards, vineyards, and nut trees									All berries			
	Irrigated							Non-irrigated		Irrigated		Non-irrigated	
			Farms by acres harvested										
	Farms	Acres harvested	Less than 5.0 acres	5.0 to 14.9 acres	15.0 to 49.9 acres	50.0 to 99.9 acres	100.0 acres or more	Farms	Acres harvested	Farms	Acres harvested	Farms	Acres harvested
United States 2013	52,018	3,662,131	24,135	10,112	8,384	3,868	5,519	3,980	133,813	12,763	227,651	1,688	15,426
2008 [1]	57,184	3,733,339	20,148	15,253	11,833	3,707	6,243	3,003	138,879	9,021	222,857	538	15,560
2013 DATA													
Alabama	172	2,701	120	26	18	4	4	53	1,163	187	519	32	48
Alaska	-	-	-	-	-	-	-	-	-	12	5	-	-
Arizona	1,042	24,800	750	151	107	13	21	-	-	-	-	-	-
Arkansas	71	1,498	13	4	42	12	-	77	4,318	86	587	36	36
California	31,859	2,576,601	12,996	6,146	6,062	2,610	4,045	604	2,207	1,280	33,443	8	1
Colorado	870	2,184	677	193	-	-	-	-	-	214	102	-	-
Connecticut	39	97	32	7	-	-	-	48	645	89	234	21	8
Delaware	19	321	10	8	-	-	1	2	(D)	22	37	12	17
Florida	3,132	491,029	1,039	620	552	364	557	203	11,941	578	12,478	136	748
Georgia	534	100,609	102	144	75	51	162	165	18,538	582	20,805	91	1,689
Hawaii	688	4,720	555	99	25	-	9	117	2,121	17	54	-	-
Idaho	333	7,364	34	240	43	-	16	-	-	16	5	-	-
Illinois	41	104	29	12	-	-	-	35	83	104	322	17	10
Indiana	53	382	35	6	12	-	-	62	767	140	360	28	144
Iowa	57	267	39	12	6	-	-	39	97	108	411	5	1
Kansas	200	1,809	142	2	56	-	-	16	(D)	85	93	8	4
Kentucky	108	124	101	7	-	-	-	45	293	196	284	12	27
Louisiana	142	1,197	54	53	35	-	-	88	1,885	62	147	-	-
Maine	59	144	57	2	-	-	-	54	2,976	108	7,401	41	2,733
Maryland	80	1,975	46	10	8	12	4	42	1,178	137	387	21	555
Massachusetts	54	1,045	28	15	-	6	5	37	653	593	14,973	23	89
Michigan	416	18,525	127	108	115	22	44	342	42,569	768	24,668	250	2,148
Minnesota	93	147	88	5	-	-	-	40	68	194	455	5	1
Mississippi	22	1,204	6	12	-	-	4	44	1,007	160	3,584	-	-
Missouri	177	363	171	-	6	-	-	109	3,649	161	209	11	7
Montana	436	896	348	88	-	-	-	-	-	269	62	-	-
Nebraska	16	33	16	-	-	-	-	16	24	8	1	-	-
Nevada	51	1,203	39	-	-	10	2	-	-	-	-	-	-
New Hampshire	57	614	41	6	2	8	-	25	268	112	232	23	11
New Jersey	107	2,671	60	19	6	13	9	30	1,152	242	12,774	27	891
New Mexico	2,549	45,419	1,770	514	139	65	61	-	-	455	160	-	-
New York	214	6,938	75	46	65	8	20	110	7,436	252	1,255	79	990
North Carolina	170	1,205	126	14	28	-	2	88	327	392	4,570	108	360
North Dakota	7	21	7	-	-	-	-	-	-	7	4	-	-
Ohio	109	430	92	13	2	2	-	103	1,404	264	633	37	180
Oklahoma	252	2,100	149	61	30	10	2	30	240	99	108	-	-
Oregon	1,546	42,698	454	580	361	57	94	423	7,138	1,522	26,800	207	2,945
Pennsylvania	162	2,761	100	20	22	15	5	220	15,731	365	675	77	85
Rhode Island	17	60	14	3	-	-	-	3	14	45	207	15	6
South Carolina	73	10,453	46	7	11	7	2	5	44	162	676	-	-
South Dakota	11	21	9	2	-	-	-	17	31	46	70	18	49
Tennessee	86	619	77	5	-	-	4	37	45	94	270	13	3
Texas	2,048	48,095	1,524	390	56	10	68	44	1,178	196	1,172	-	-
Utah	619	6,347	338	262	-	-	19	-	-	185	358	-	-
Vermont	9	132	5	3	-	-	1	33	568	107	305	38	83
Virginia	96	1,142	54	21	15	4	2	77	394	180	464	22	9
Washington	2,984	248,175	1,448	135	485	560	356	382	961	1,125	24,301	223	1,459
West Virginia	21	35	21	-	-	-	-	16	63	42	49	17	83
Wisconsin	113	855	67	41	-	5	-	99	623	674	30,680	27	8
Wyoming	4	1	4	-	-	-	-	-	-	21	263	-	-
Water Resources Regions													
Region 01 New England	262	1,979	208	33	2	14	5	170	4,558	971	23,144	154	2,887
Region 02 Mid-Atlantic	537	13,215	281	82	90	48	36	340	18,263	981	14,823	160	1,664
Region 03 South Atlantic-Gulf	4,052	603,260	1,402	823	684	425	718	560	32,739	2,007	42,515	300	2,775
Region 04 Great Lakes	612	21,457	224	175	135	28	50	586	50,790	1,267	27,093	311	3,169
Region 05 Ohio	256	1,219	207	27	20	-	2	205	2,518	623	1,426	114	334
Region 06 Tennessee	106	3,092	93	1	-	1	11	33	23	139	317	89	79
Region 07 Upper Mississippi	358	1,321	304	43	6	5	-	195	842	842	30,191	49	18
Region 08 Lower Mississippi	203	3,650	78	38	71	12	4	144	8,485	104	328	36	36
Region 09 Souris-Red-Rainy	7	21	7	-	-	-	-	-	-	25	50	-	-
Region 10 Missouri	435	2,235	363	16	56	-	-	105	1,631	361	576	37	59
Region 11 Arkansas-White-Red	612	2,921	476	82	42	10	2	79	676	313	751	-	-
Region 12 Texas-Gulf	1,740	33,798	1,228	390	56	5	61	13	143	188	1,168	-	-
Region 13 Rio Grande	2,563	58,003	1,840	490	96	70	67	24	720	411	146	-	-
Region 14 Upper Colorado	708	3,060	477	187	43	-	1	-	-	203	105	-	-
Region 15 Lower Colorado	1,280	26,296	852	277	107	23	21	-	-	-	-	-	-
Region 16 Great Basin	456	6,174	275	160	-	-	21	-	-	185	358	-	-
Region 17 Pacific Northwest	5,275	298,690	2,263	1,043	889	617	463	805	8,098	2,828	51,156	430	4,404
Region 18 California	31,868	2,577,022	13,002	6,146	6,062	2,610	4,048	604	2,207	1,286	33,444	8	1
Region 19 Alaska	-	-	-	-	-	-	-	-	-	12	5	-	-
Region 20 Hawaii	688	4,720	555	99	25	-	9	117	2,121	17	54	-	-

See footnote(s) at end of table.

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Table 35. **Crops Harvested in the Open from Irrigated Farms: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other crops (see text)				Pastureland, all types			
	Irrigated		Non-irrigated		Irrigated		Non-irrigated	
	Farms	Acres harvested	Farms	Acres harvested	Farms	Acres	Farms	Acres
United States 2013	26,309	2,320,822	3,968	622,896	42,733	3,034,409	72,894	109,046,125
2008 [1]	6,761	1,487,387	1,632	626,219	49,582	3,611,216	72,654	91,453,055
2013 DATA								
Alabama	361	18,569	37	2,368	46	587	334	51,886
Alaska	37	132	5	55	-	-	31	1,274
Arizona	447	21,381	-	-	1,365	34,897	1,284	3,973,592
Arkansas	226	23,875	9	352	87	12,795	695	203,248
California	3,819	249,561	73	6,247	3,786	433,570	3,624	6,023,868
Colorado	1,070	59,113	142	31,001	3,854	296,345	5,899	7,322,881
Connecticut	273	2,817	48	462	7	14	204	7,502
Delaware	36	2,209	5	267	5	165	75	3,899
Florida	3,058	454,826	219	35,160	497	99,618	1,399	834,101
Georgia	456	25,058	106	12,474	226	23,690	1,355	244,257
Hawaii	700	28,431	58	501	91	5,479	236	92,517
Idaho	939	258,292	43	6,598	8,243	277,328	3,374	2,592,561
Illinois	346	23,969	115	4,974	17	690	361	55,767
Indiana	271	16,055	97	16,715	26	1,017	600	32,116
Iowa	127	2,983	58	3,491	11	250	279	35,794
Kansas	269	54,060	116	23,336	28	4,251	3,111	2,802,631
Kentucky	277	3,454	83	8,668	23	336	612	49,478
Louisiana	381	15,960	59	15,859	79	5,411	477	126,341
Maine	161	1,209	32	1,981	-	-	306	15,857
Maryland	181	9,457	35	2,008	16	142	271	8,456
Massachusetts	315	2,421	131	1,838	7	7	292	4,687
Michigan	710	32,235	183	31,058	2	(D)	797	41,097
Minnesota	244	30,904	146	51,564	32	3,739	623	60,810
Mississippi	261	6,002	38	3,900	47	1,868	249	67,560
Missouri	171	10,625	68	1,240	86	2,430	1,040	130,230
Montana	789	110,623	43	43,563	2,930	384,184	4,785	14,422,571
Nebraska	498	108,355	83	2,488	402	38,380	8,063	8,390,372
Nevada	42	8,081	-	-	877	190,179	669	3,362,594
New Hampshire	167	733	-	-	1	(D)	135	1,205
New Jersey	531	16,987	72	2,440	37	516	334	14,544
New Mexico	322	6,885	-	-	2,174	89,871	2,625	7,129,378
New York	601	8,067	114	5,098	8	232	504	16,260
North Carolina	753	22,087	204	29,817	142	9,432	885	64,238
North Dakota	90	18,074	53	34,944	13	695	250	333,148
Ohio	364	8,222	124	8,083	26	496	527	16,796
Oklahoma	174	28,284	34	6,487	240	37,870	1,180	1,322,520
Oregon	1,599	191,890	312	139,598	4,855	277,547	5,238	6,204,869
Pennsylvania	707	2,988	239	12,368	10	230	1,288	28,826
Rhode Island	119	2,230	8	160	10	68	89	639
South Carolina	283	21,683	76	1,684	39	3,168	279	38,422
South Dakota	66	9,550	30	5,850	12	1,869	771	1,165,007
Tennessee	245	7,682	83	6,428	24	359	436	82,169
Texas	1,198	147,889	191	19,098	1,873	133,289	6,611	20,494,789
Utah	279	5,903	19	209	4,471	242,890	3,767	3,276,794
Vermont	150	326	33	195	-	-	175	5,499
Virginia	552	10,535	85	11,491	19	633	519	40,603
Washington	963	173,493	100	15,554	4,003	73,246	2,379	1,942,824
West Virginia	87	421	20	545	-	-	158	14,061
Wisconsin	411	10,082	129	13,897	11	249	737	75,146
Wyoming	183	46,154	10	782	1,975	344,215	2,962	15,820,441
Water Resources Regions								
Region 01 New England	1,079	9,549	235	4,465	25	(D)	1,076	31,212
Region 02 Mid-Atlantic	2,169	46,528	431	20,154	80	1,639	2,512	87,738
Region 03 South Atlantic-Gulf	5,100	544,917	663	89,922	973	137,803	4,346	1,271,491
Region 04 Great Lakes	1,311	38,967	345	38,761	24	793	1,633	63,167
Region 05 Ohio	1,089	25,434	339	33,275	63	(D)	1,776	118,025
Region 06 Tennessee	210	5,333	57	2,456	39	416	478	70,755
Region 07 Upper Mississippi	982	53,238	409	54,170	70	3,328	1,912	225,464
Region 08 Lower Mississippi	571	31,481	94	19,801	125	4,736	1,058	277,106
Region 09 Souris-Red-Rainy	57	17,341	53	36,451	4	(D)	180	61,120
Region 10 Missouri	2,328	334,213	319	111,155	4,144	600,508	18,826	41,706,315
Region 11 Arkansas-White-Red	629	108,775	135	13,955	1,299	137,155	5,973	8,186,015
Region 12 Texas-Gulf	1,153	133,758	191	19,098	1,182	82,043	5,001	9,043,431
Region 13 Rio Grande	168	20,500	-	-	2,447	130,304	2,865	14,855,503
Region 14 Upper Colorado	495	3,948	77	10,426	4,855	422,057	4,798	5,514,822
Region 15 Lower Colorado	468	23,355	-	-	1,828	55,140	1,678	4,615,471
Region 16 Great Basin	346	15,451	35	6,561	3,500	285,003	2,964	5,075,224
Region 17 Pacific Northwest	3,609	629,945	449	155,443	17,913	660,326	11,720	11,537,975
Region 18 California	3,808	249,526	73	6,247	4,071	504,300	3,831	6,211,500
Region 19 Alaska	37	132	5	55	-	-	31	1,274
Region 20 Hawaii	700	28,431	58	501	91	5,479	236	92,517

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.
[2] Respondents were asked to report in dry tons.

Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for grain or seed											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre
United States 2013	37,247	13,289,247	196	1.1	29,752	11,012,114	197	1.1	7,495	2,277,133	191	1.4
2008 [1]	33,571	11,991,515	181	1.0	26,592	9,786,501	183	1.0	6,979	2,205,014	170	1.1
2013 DATA												
Alabama	135	35,551	199	0.4	127	35,467	199	0.4	8	84	131	0.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	94	46,082	212	3.0	73	42,543	216	2.9	21	3,539	158	4.8
Arkansas	1,497	698,974	189	1.2	366	150,677	186	1.2	1,131	548,297	190	1.3
California	489	152,261	199	3.4	25	5,340	218	2.7	464	146,921	198	3.4
Colorado	1,689	583,424	188	1.6	1,220	509,245	192	1.5	469	74,179	164	2.2
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	237	59,543	198	0.6	237	59,543	198	0.6	-	-	-	-
Florida	119	27,477	179	0.7	109	25,937	181	0.7	10	1,540	157	0.5
Georgia	1,009	253,218	195	0.6	1,009	253,218	195	0.6	-	-	-	-
Hawaii	20	5,313	54	2.9	15	3,092	55	3.2	5	2,221	54	2.4
Idaho	888	132,254	188	2.4	358	90,012	187	2.1	530	42,242	188	2.8
Illinois	912	375,813	196	0.7	898	372,329	196	0.7	14	3,484	180	0.6
Indiana	886	309,977	197	0.5	875	305,967	197	0.5	11	4,010	206	0.4
Iowa	441	117,932	206	0.6	438	117,812	206	0.6	3	120	170	0.1
Kansas	3,713	1,505,272	194	1.3	3,585	1,480,384	194	1.3	128	24,888	180	1.2
Kentucky	78	27,907	203	0.4	78	27,907	203	0.4	-	-	-	-
Louisiana	485	298,958	193	0.8	141	61,271	182	0.8	344	237,687	196	0.9
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	260	43,580	196	0.5	258	(D)	(D)	(D)	2	(D)	(D)	(D)
Massachusetts	7	7	128	0.8	7	7	128	0.8	-	-	-	-
Michigan	923	299,962	194	0.5	921	(D)	(D)	(D)	2	(D)	(D)	(D)
Minnesota	1,146	267,208	181	0.6	1,146	267,208	181	0.6	-	-	-	-
Mississippi	782	521,338	192	1.1	268	139,497	193	0.9	514	381,841	192	1.1
Missouri	961	349,395	188	0.9	538	188,825	185	0.9	423	160,570	192	0.9
Montana	298	41,170	156	1.8	86	19,138	157	2.4	212	22,032	155	1.3
Nebraska	13,915	5,351,824	202	1.0	11,912	4,874,986	202	1.0	2,003	476,838	200	1.3
Nevada	19	(D)	(D)	3.2	7	1,979	107	3.1	12	(D)	(D)	3.6
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	77	8,536	191	0.4	75	(D)	(D)	(D)	2	(D)	(D)	(D)
New Mexico	144	47,342	194	2.0	119	47,222	194	2.0	25	120	191	0.8
New York	37	3,166	181	0.3	37	3,166	181	0.3	-	-	-	-
North Carolina	226	28,540	173	0.4	226	28,540	173	0.4	-	-	-	-
North Dakota	248	91,616	168	0.7	239	91,289	167	0.7	9	327	194	0.8
Ohio	46	9,925	195	0.4	46	9,925	195	0.4	-	-	-	-
Oklahoma	221	100,185	209	1.5	219	(D)	(D)	(D)	2	(D)	(D)	(D)
Oregon	300	37,983	209	2.7	118	24,718	206	2.5	182	13,265	216	3.0
Pennsylvania	38	1,531	194	(D)	38	1,531	194	(D)	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	183	41,442	190	0.5	183	41,442	190	0.5	-	-	-	-
South Dakota	788	199,926	190	0.7	727	194,842	191	0.7	61	5,084	136	0.9
Tennessee	197	69,820	198	0.4	197	69,820	198	0.4	-	-	-	-
Texas	1,756	792,089	197	1.6	1,345	717,969	202	1.6	411	74,120	153	1.4
Utah	339	37,141	178	2.4	99	16,708	169	3.2	240	20,433	185	1.7
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	76	15,182	204	0.4	76	15,182	204	0.4	-	-	-	-
Washington	617	98,131	210	2.1	521	86,812	212	2.2	96	11,319	194	2.0
West Virginia	4	(D)	(D)	(D)	4	(D)	(D)	(D)	-	-	-	-
Wisconsin	652	145,744	185	0.7	652	145,744	185	0.7	-	-	-	-
Wyoming	295	53,846	152	1.5	134	33,762	159	1.7	161	20,084	141	1.1
Water Resources Regions												
Region 01 New England	7	7	128	0.8	7	7	128	0.8	-	-	-	-
Region 02 Mid-Atlantic	713	129,825	197	0.5	709	129,325	197	0.5	4	500	232	0.4
Region 03 South Atlantic-Gulf	1,735	389,374	191	0.6	1,698	386,200	191	0.6	37	3,174	159	0.7
Region 04 Great Lakes	1,297	397,977	196	0.6	1,295	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 05 Ohio	619	206,682	201	0.5	612	203,958	201	0.5	7	2,724	180	0.5
Region 06 Tennessee	97	25,520	208	0.5	97	25,520	208	0.5	-	-	-	-
Region 07 Upper Mississippi	2,959	860,252	189	0.7	2,915	847,060	188	0.7	44	13,192	209	0.5
Region 08 Lower Mississippi	3,120	1,704,345	192	1.0	1,003	475,640	191	0.9	2,117	1,228,705	192	1.1
Region 09 Souris-Red-Rainy	214	77,390	170	0.7	214	77,390	170	0.7	-	-	-	-
Region 10 Missouri	18,879	6,854,073	198	1.1	16,045	6,259,897	199	1.0	2,834	594,176	191	1.3
Region 11 Arkansas-White-Red	3,594	1,812,603	201	1.5	3,259	1,693,774	202	1.5	335	118,829	181	1.3
Region 12 Texas-Gulf	933	280,022	176	1.4	534	217,022	183	1.5	399	63,000	154	1.3
Region 13 Rio Grande	99	8,156	190	2.1	79	(D)	(D)	(D)	20	(D)	(D)	(D)
Region 14 Upper Colorado	252	37,907	185	2.6	102	25,317	184	2.9	150	12,590	186	1.9
Region 15 Lower Colorado	104	46,572	211	3.0	77	42,943	216	2.9	27	3,629	158	4.8
Region 16 Great Basin	302	31,760	178	2.2	60	11,397	166	3.0	242	20,363	185	1.7
Region 17 Pacific Northwest	1,812	268,788	199	2.3	1,004	201,962	200	2.2	808	66,826	195	2.7
Region 18 California	491	152,681	199	3.4	27	5,760	218	2.6	464	146,921	198	3.4
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	20	5,313	54	2.9	15	3,092	55	3.2	5	2,221	54	2.4

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for silage or greenchop											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (tons, green)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (tons, green)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (tons, green)	Average acre-feet applied per acre
United States 2013	8,382	1,729,358	25	1.9	4,660	1,204,133	24	1.5	3,722	525,225	27	2.7
2008 [1]	9,135	1,633,540	25	2.1	4,690	891,129	25	1.7	4,445	742,411	26	2.6
2013 DATA												
Alabama	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	69	30,364	28	4.1	5	6,945	30	5.9	64	23,419	28	3.6
Arkansas	21	840	25	1.0	21	840	25	1.0	-	-	-	-
California	1,583	363,651	28	3.1	146	37,526	27	3.7	1,437	326,125	28	3.1
Colorado	579	103,698	24	1.8	345	80,836	24	1.8	234	22,862	24	2.0
Connecticut	5	(D)	(D)	(D)	3	(D)	(D)	(D)	2	(D)	(D)	(D)
Delaware	12	1,348	22	0.4	12	1,348	22	0.4	-	-	-	-
Florida	38	12,416	18	1.0	38	12,416	18	1.0	-	-	-	-
Georgia	48	15,995	24	0.5	48	15,995	24	0.5	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,521	203,110	27	2.2	528	161,902	28	2.3	993	41,208	27	1.9
Illinois	8	130	20	0.2	8	130	20	0.2	-	-	-	-
Indiana	58	7,948	25	0.4	58	7,948	25	0.4	-	-	-	-
Iowa	6	762	21	0.6	6	762	21	0.6	-	-	-	-
Kansas	474	108,442	20	1.2	474	108,442	20	1.2	-	-	-	-
Kentucky	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Louisiana	9	1,305	18	0.8	9	1,305	18	0.8	-	-	-	-
Maine	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Maryland	13	1,987	25	0.7	13	1,987	25	0.7	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	71	11,379	25	0.6	71	11,379	25	0.6	-	-	-	-
Minnesota	142	17,188	21	0.6	142	17,188	21	0.6	-	-	-	-
Mississippi	12	1,140	21	1.2	12	1,140	21	1.2	-	-	-	-
Missouri	17	1,530	20	0.9	17	1,530	20	0.9	-	-	-	-
Montana	267	36,522	23	1.6	76	20,296	19	1.8	191	16,226	27	1.3
Nebraska	1,130	297,353	24	0.8	1,046	294,287	24	0.8	84	3,066	23	1.3
Nevada	86	9,740	24	3.7	17	2,735	24	3.9	69	7,005	25	3.6
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	2	(D)	(D)	(D)	-	-	-	-	2	(D)	(D)	(D)
New Mexico	303	76,556	22	2.0	225	63,537	23	2.0	78	13,019	19	1.8
New York	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
North Carolina	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
North Dakota	55	3,863	22	0.8	28	2,246	22	0.7	27	1,617	22	1.1
Ohio	7	1,509	25	0.7	7	1,509	25	0.7	-	-	-	-
Oklahoma	51	20,517	19	1.2	49	(D)	(D)	(D)	2	(D)	(D)	(D)
Oregon	224	33,976	26	1.6	175	30,167	26	1.4	49	3,809	32	2.7
Pennsylvania	17	1,564	28	0.1	17	1,564	28	0.1	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	32	1,900	22	0.4	32	1,900	22	0.4	-	-	-	-
South Dakota	95	11,679	18	0.8	71	9,895	18	0.8	24	1,784	17	0.7
Tennessee	3	221	18	0.2	3	221	18	0.2	-	-	-	-
Texas	360	159,455	25	1.5	347	154,398	24	1.5	13	5,057	28	0.8
Utah	387	57,351	24	2.2	151	26,448	25	2.3	236	30,903	22	2.2
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	11	1,135	27	0.3	11	1,135	27	0.3	-	-	-	-
Washington	240	67,038	28	2.2	186	55,674	28	2.3	54	11,364	27	2.0
West Virginia	3	3	25	0.2	3	3	25	0.2	-	-	-	-
Wisconsin	155	27,023	23	0.6	155	27,023	23	0.6	-	-	-	-
Wyoming	261	37,329	23	1.5	98	20,468	24	1.5	163	16,861	22	1.5
Water Resources Regions												
Region 01 New England	6	71	23	0.5	4	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 02 Mid-Atlantic	53	6,126	26	0.4	51	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 03 South Atlantic-Gulf	121	30,721	21	0.6	121	30,721	21	0.6	-	-	-	-
Region 04 Great Lakes	150	23,376	24	0.5	150	23,376	24	0.5	-	-	-	-
Region 05 Ohio	34	3,370	25	0.6	34	3,370	25	0.6	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	249	38,358	22	0.6	249	38,358	22	0.6	-	-	-	-
Region 08 Lower Mississippi	39	4,100	20	0.9	39	4,100	20	0.9	-	-	-	-
Region 09 Souris-Red-Rainy	33	1,736	23	0.6	33	1,736	23	0.6	-	-	-	-
Region 10 Missouri	2,444	501,524	23	1.1	1,787	443,642	23	1.0	657	57,882	24	1.5
Region 11 Arkansas-White-Red	506	171,730	21	1.3	501	170,785	21	1.3	5	945	20	2.1
Region 12 Texas-Gulf	353	128,896	24	1.6	340	123,839	23	1.6	13	5,057	28	0.8
Region 13 Rio Grande	199	49,041	22	1.9	129	36,332	23	2.0	70	12,709	18	1.8
Region 14 Upper Colorado	176	12,008	24	2.4	37	3,060	26	2.3	139	8,948	24	2.5
Region 15 Lower Colorado	57	30,244	28	4.1	5	6,945	30	5.9	52	23,299	28	3.6
Region 16 Great Basin	396	60,797	24	2.5	147	27,098	25	2.4	249	33,699	23	2.5
Region 17 Pacific Northwest	1,983	303,609	27	2.1	887	247,228	28	2.2	1,096	56,381	27	2.0
Region 18 California	1,583	363,651	28	3.1	146	37,526	27	3.7	1,437	326,125	28	3.1
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sorghum for grain or seed											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre
United States 2013	3,923	809,579	97	1.1	3,263	686,269	96	1.0	660	123,310	98	1.3
2008 [1]	4,118	1,042,392	77	0.9	2,860	798,388	75	0.8	1,258	244,004	83	1.4
2013 DATA												
Alabama	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	53	10,466	119	3.3	12	2,674	139	3.7	41	7,792	112	3.1
Arkansas	185	38,909	112	0.9	94	23,860	117	0.9	91	15,049	103	0.8
California	42	10,305	83	1.9	5	1,755	77	1.0	37	8,550	84	2.0
Colorado	155	9,542	92	0.7	110	5,102	95	0.5	45	4,440	89	1.0
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Florida	15	900	68	1.4	15	900	68	1.4	-	-	-	-
Georgia	34	7,706	45	0.3	34	7,706	45	0.3	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	4	112	156	2.2	1	(D)	(D)	(D)	3	(D)	(D)	(D)
Illinois	4	84	65	1.2	4	84	65	1.2	-	-	-	-
Indiana	5	2,736	93	0.8	5	2,736	93	0.8	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	1,167	175,604	115	1.0	1,057	169,730	115	1.0	110	5,874	97	1.2
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	15	6,120	95	0.5	-	-	-	-	15	6,120	95	0.5
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	12	387	81	0.4	10	(D)	(D)	(D)	2	(D)	(D)	(D)
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	19	1,774	121	0.6	2	(D)	(D)	(D)	17	(D)	(D)	(D)
Missouri	40	4,499	111	0.5	31	3,695	112	0.5	9	804	107	0.9
Montana	5	100	96	0.3	5	100	96	0.3	-	-	-	-
Nebraska	84	4,494	102	0.5	84	4,494	102	0.5	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
New Mexico	99	19,607	98	1.3	97	(D)	(D)	(D)	2	(D)	(D)	(D)
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	15	883	69	0.2	15	883	69	0.2	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	118	20,030	81	1.1	118	20,030	81	1.1	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	4	190	97	0.3	4	190	97	0.3	-	-	-	-
South Dakota	3	105	96	0.8	3	105	96	0.8	-	-	-	-
Tennessee	6	1,397	97	0.8	5	(D)	(D)	(D)	1	(D)	(D)	(D)
Texas	1,813	492,796	90	1.1	1,526	420,476	89	1.1	287	72,320	98	1.2
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Washington	19	444	39	0.7	19	444	39	0.7	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	16	626	75	0.5	14	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 03 South Atlantic-Gulf	71	9,829	51	0.4	71	9,829	51	0.4	-	-	-	-
Region 04 Great Lakes	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Region 05 Ohio	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Region 06 Tennessee	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Region 07 Upper Mississippi	9	3,070	96	0.9	9	3,070	96	0.9	-	-	-	-
Region 08 Lower Mississippi	220	46,759	112	0.8	115	28,387	117	0.8	105	18,372	104	0.7
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	495	38,651	98	0.7	411	33,499	98	0.7	84	5,152	97	0.9
Region 11 Arkansas-White-Red	1,587	307,042	102	1.1	1,481	290,475	103	1.1	106	16,567	94	0.9
Region 12 Texas-Gulf	1,156	370,585	91	1.1	1,051	307,910	90	1.0	105	62,675	99	1.2
Region 13 Rio Grande	230	9,200	99	1.5	63	6,680	99	1.8	167	2,520	97	0.7
Region 14 Upper Colorado	10	1,600	80	0.5	-	-	-	-	10	1,600	80	0.5
Region 15 Lower Colorado	53	10,466	119	3.3	12	2,674	139	3.7	41	7,792	112	3.1
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	28	656	68	0.9	25	(D)	(D)	(D)	3	(D)	(D)	(D)
Region 18 California	42	10,305	83	1.9	5	1,755	77	1.0	37	8,550	84	2.0
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Wheat for grain or seed											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre
United States 2013	12,974	3,197,501	78	1.4	9,934	2,654,442	75	1.3	3,040	543,059	95	2.1
2008 [1]	16,265	4,107,464	75	1.4	11,781	3,201,888	70	1.2	4,484	905,576	92	2.2
2013 DATA												
Alabama	11	2,500	79	0.3	11	2,500	79	0.3	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	136	65,301	104	3.4	14	11,145	91	4.0	122	54,156	107	3.3
Arkansas	32	14,344	67	0.9	19	6,026	65	0.9	13	8,318	68	0.9
California	900	339,188	107	2.1	362	121,181	110	1.9	538	218,007	105	2.3
Colorado	857	102,472	63	1.9	642	87,972	64	2.0	215	14,500	54	1.2
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	62	9,694	68	0.5	62	9,694	68	0.5	-	-	-	-
Florida	8	(D)	(D)	(D)	8	(D)	(D)	(D)	-	-	-	-
Georgia	210	50,584	67	0.4	210	50,584	67	0.4	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	2,758	700,201	104	1.6	1,914	643,845	103	1.6	844	56,356	117	2.0
Illinois	49	3,441	71	0.7	49	3,441	71	0.7	-	-	-	-
Indiana	56	4,907	88	0.4	56	4,907	88	0.4	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	1,683	471,161	45	0.9	1,675	464,686	45	0.9	8	6,475	45	1.1
Kentucky	6	1,630	87	0.7	6	1,630	87	0.7	-	-	-	-
Louisiana	31	11,952	76	0.4	13	2,460	80	0.4	18	9,492	74	0.4
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	62	5,873	72	0.4	62	5,873	72	0.4	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	66	11,629	74	0.3	66	11,629	74	0.3	-	-	-	-
Minnesota	28	5,559	70	0.6	28	5,559	70	0.6	-	-	-	-
Mississippi	9	3,000	63	0.5	4	(D)	(D)	(D)	5	(D)	(D)	(D)
Missouri	99	30,966	70	0.6	81	25,472	70	0.6	18	5,494	67	0.6
Montana	912	164,970	69	1.3	466	93,884	75	1.1	446	71,086	61	1.5
Nebraska	947	121,773	74	0.7	932	(D)	(D)	(D)	15	(D)	(D)	(D)
Nevada	48	16,923	111	2.7	28	14,519	112	2.6	20	2,404	106	2.8
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	20	730	52	0.7	20	730	52	0.7	-	-	-	-
New Mexico	189	56,367	61	1.4	130	54,983	61	1.4	59	1,384	66	1.0
New York	8	790	84	0.9	8	790	84	0.9	-	-	-	-
North Carolina	66	6,647	74	0.3	66	6,647	74	0.3	-	-	-	-
North Dakota	91	17,522	66	0.6	65	11,808	63	0.7	26	5,714	73	0.5
Ohio	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Oklahoma	400	96,948	41	1.0	365	94,388	41	1.0	35	2,560	29	1.6
Oregon	459	149,430	101	1.6	321	123,347	101	1.3	138	26,083	103	3.1
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	38	5,272	63	0.5	38	5,272	63	0.5	-	-	-	-
South Dakota	18	1,822	82	0.7	16	(D)	(D)	(D)	2	(D)	(D)	(D)
Tennessee	12	3,060	84	0.3	12	3,060	84	0.3	-	-	-	-
Texas	1,494	440,046	42	1.1	1,446	426,724	42	1.1	48	13,322	52	1.9
Utah	415	40,956	102	1.6	136	15,648	90	1.9	279	25,308	109	1.4
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	12	2,230	83	0.6	12	2,230	83	0.6	-	-	-	-
Washington	712	227,058	111	1.8	536	209,665	111	1.8	176	17,393	118	1.6
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	24	2,377	67	0.4	24	2,377	67	0.4	-	-	-	-
Wyoming	45	7,886	80	1.1	30	5,836	83	1.1	15	2,050	73	0.9
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	156	18,527	70	0.5	156	18,527	70	0.5	-	-	-	-
Region 03 South Atlantic-Gulf	328	63,755	68	0.4	328	63,755	68	0.4	-	-	-	-
Region 04 Great Lakes	95	13,482	75	0.4	95	13,482	75	0.4	-	-	-	-
Region 05 Ohio	28	4,959	85	0.6	28	4,959	85	0.6	-	-	-	-
Region 06 Tennessee	5	1,400	94	0.4	5	1,400	94	0.4	-	-	-	-
Region 07 Upper Mississippi	105	11,115	72	0.5	105	11,115	72	0.5	-	-	-	-
Region 08 Lower Mississippi	170	60,262	70	0.6	116	35,862	70	0.7	54	24,400	70	0.6
Region 09 Souris-Red-Rainy	24	3,551	72	0.3	24	3,551	72	0.3	-	-	-	-
Region 10 Missouri	2,881	446,353	67	1.0	2,319	362,794	68	0.9	562	83,559	63	1.3
Region 11 Arkansas-White-Red	2,535	821,540	44	1.1	2,437	799,685	44	1.1	98	21,855	38	1.2
Region 12 Texas-Gulf	762	172,560	44	1.0	720	163,838	43	0.9	42	8,722	58	2.5
Region 13 Rio Grande	141	17,466	55	2.1	82	16,082	55	2.2	59	1,384	66	1.0
Region 14 Upper Colorado	177	16,168	77	2.1	90	14,508	77	2.2	87	1,660	83	1.5
Region 15 Lower Colorado	197	69,761	104	3.3	70	13,105	93	3.5	127	56,656	106	3.3
Region 16 Great Basin	504	81,296	96	1.6	208	55,084	91	1.7	296	26,212	108	1.5
Region 17 Pacific Northwest	3,951	1,050,017	106	1.7	2,769	946,913	105	1.6	1,182	103,104	112	2.2
Region 18 California	915	345,289	106	2.1	382	129,782	108	1.8	533	215,507	105	2.3
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Soybeans for beans											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (bushels)	Average acre-feet applied per acre
United States 2013	21,755	7,413,276	54	0.9	15,399	4,041,900	57	0.8	6,356	3,371,376	51	1.0
2008 [1]	23,024	7,044,546	49	0.7	16,906	4,158,193	52	0.7	6,118	2,886,353	45	0.8
2013 DATA												
Alabama	62	15,385	59	0.4	62	15,385	59	0.4	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	3,222	2,592,619	48	1.0	793	638,682	49	0.9	2,429	1,953,937	47	1.1
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	60	7,790	48	1.4	60	7,790	48	1.4	-	-	-	-
Connecticut	7	7	34	0.5	7	7	34	0.5	-	-	-	-
Delaware	209	32,371	51	0.5	209	32,371	51	0.5	-	-	-	-
Florida	14	2,880	37	0.8	14	2,880	37	0.8	-	-	-	-
Georgia	262	55,036	47	0.4	262	55,036	47	0.4	-	-	-	-
Hawaii	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Idaho	16	1,104	44	2.2	16	1,104	44	2.2	-	-	-	-
Illinois	586	112,182	57	0.7	580	111,462	57	0.7	6	720	57	0.7
Indiana	549	98,378	59	0.4	544	98,168	59	0.4	5	210	68	0.6
Iowa	251	50,421	56	0.5	251	50,421	56	0.5	-	-	-	-
Kansas	1,842	316,362	55	0.9	1,665	296,558	56	0.9	177	19,804	45	0.8
Kentucky	60	13,855	55	0.3	60	13,855	55	0.3	-	-	-	-
Louisiana	548	263,466	59	0.8	159	63,484	58	0.8	389	199,982	59	0.8
Maine	8	8	46	0.3	8	8	46	0.3	-	-	-	-
Maryland	196	26,294	50	0.5	194	(D)	(D)	(D)	2	(D)	(D)	(D)
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	511	83,905	55	0.4	511	83,905	55	0.4	-	-	-	-
Minnesota	643	94,717	49	0.6	643	94,717	49	0.6	-	-	-	-
Mississippi	1,101	913,850	57	0.9	407	237,953	56	0.8	694	675,897	57	0.9
Missouri	1,152	521,166	48	0.7	664	231,610	49	0.7	488	289,556	48	0.7
Montana	23	4,092	44	1.3	11	1,292	39	(D)	12	2,800	47	(D)
Nebraska	8,990	1,935,369	62	0.9	6,859	1,716,561	62	0.8	2,131	218,808	57	1.1
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	53	6,620	50	0.4	53	6,620	50	0.4	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
New York	5	(D)	(D)	(D)	5	(D)	(D)	(D)	-	-	-	-
North Carolina	86	8,989	47	0.4	86	8,989	47	0.4	-	-	-	-
North Dakota	154	26,955	47	0.5	148	26,219	46	0.5	6	736	50	1.2
Ohio	38	2,061	59	0.3	38	2,061	59	0.3	-	-	-	-
Oklahoma	134	31,469	50	1.3	134	31,469	50	1.3	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	3	86	54	0.4	3	86	54	0.4	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	60	8,279	46	0.5	60	8,279	46	0.5	-	-	-	-
South Dakota	412	77,706	56	0.6	409	77,616	56	0.6	3	90	15	0.2
Tennessee	145	43,144	55	0.4	143	(D)	(D)	(D)	2	(D)	(D)	(D)
Texas	50	16,922	50	1.9	38	8,422	40	1.6	12	8,500	60	2.2
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	56	10,327	57	0.4	56	10,327	57	0.4	-	-	-	-
Washington	3	513	54	2.8	3	513	54	2.8	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	229	33,139	52	0.6	229	33,139	52	0.6	-	-	-	-
Wyoming	13	5,720	66	2.0	13	5,720	66	2.0	-	-	-	-
Water Resources Regions												
Region 01 New England	15	15	40	0.4	15	15	40	0.4	-	-	-	-
Region 02 Mid-Atlantic	505	74,855	52	0.4	503	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 03 South Atlantic-Gulf	509	89,975	48	0.5	494	88,535	48	0.4	15	1,440	56	0.9
Region 04 Great Lakes	693	121,264	56	0.4	693	121,264	56	0.4	-	-	-	-
Region 05 Ohio	450	84,370	58	0.5	445	84,160	58	0.5	5	210	68	0.6
Region 06 Tennessee	59	12,700	56	0.4	59	12,700	56	0.4	-	-	-	-
Region 07 Upper Mississippi	1,664	255,419	53	0.6	1,645	249,729	53	0.6	19	5,690	63	0.4
Region 08 Lower Mississippi	5,205	3,883,709	51	1.0	1,715	1,091,804	51	0.8	3,490	2,791,905	51	1.0
Region 09 Souris-Red-Rainy	144	27,114	47	0.6	144	27,114	47	0.6	-	-	-	-
Region 10 Missouri	10,820	2,262,083	61	0.8	8,539	2,024,651	62	0.8	2,281	237,432	56	1.0
Region 11 Arkansas-White-Red	1,665	599,641	46	1.0	1,126	265,490	51	1.0	539	334,151	42	0.9
Region 12 Texas-Gulf	5	(D)	(D)	(D)	-	-	-	-	5	(D)	(D)	(D)
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	19	1,617	47	2.4	19	1,617	47	2.4	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Beans, dry edible											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	2,793	433,590	25	1.4	1,617	320,390	25	1.1	1,176	113,200	25	2.2
2008 [1]	2,849	431,329	24	1.4	1,366	266,162	25	1.1	1,483	165,167	23	1.9
2013 DATA												
Alabama	4	8	25	1.5	-	-	-	-	4	8	25	1.5
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	35	9,828	17	2.2	28	7,713	18	2.2	7	2,115	14	2.4
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	164	38,855	26	2.3	77	16,405	28	1.6	87	22,450	24	2.8
Colorado	109	16,525	25	1.6	41	9,629	24	1.3	68	6,896	26	2.1
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	4	1,116	28	0.9	4	1,116	28	0.9	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	20	2,182	44	0.8	20	2,182	44	0.8	-	-	-	-
Hawaii	9	31	40	0.3	9	31	40	0.3	-	-	-	-
Idaho	1,102	66,892	26	1.9	437	40,949	26	1.8	665	25,943	26	2.2
Illinois	5	352	25	0.8	5	352	25	0.8	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	82	10,560	21	1.0	82	10,560	21	1.0	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	8	8	21	0.1	8	8	21	0.1	-	-	-	-
Maryland	4	780	23	0.4	4	780	23	0.4	-	-	-	-
Massachusetts	14	14	25	0.5	14	14	25	0.5	-	-	-	-
Michigan	44	10,798	20	0.3	44	10,798	20	0.3	-	-	-	-
Minnesota	77	32,443	23	0.6	77	32,443	23	0.6	-	-	-	-
Mississippi	36	36	25	0.1	36	36	25	0.1	-	-	-	-
Missouri	3	(D)	(D)	(D)	2	(D)	(D)	(D)	1	(D)	(D)	(D)
Montana	69	8,420	26	1.3	26	(D)	(D)	(D)	43	(D)	(D)	(D)
Nebraska	362	125,226	25	1.0	305	110,807	25	0.9	57	14,419	24	1.8
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	5	(D)	(D)	(D)	5	(D)	(D)	(D)	-	-	-	-
New Mexico	39	10,001	21	1.0	29	9,971	21	1.0	10	30	9	1.0
New York	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
North Carolina	6	1,506	25	0.1	6	1,506	25	0.1	-	-	-	-
North Dakota	42	7,541	21	0.4	42	7,541	21	0.4	-	-	-	-
Ohio	14	23	30	0.8	14	23	30	0.8	-	-	-	-
Oklahoma	9	1,080	13	0.8	9	1,080	13	0.8	-	-	-	-
Oregon	43	8,113	24	2.4	29	5,237	24	1.9	14	2,876	24	3.2
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	14	19	25	2.0	14	19	25	2.0	-	-	-	-
South Dakota	4	3,310	29	1.0	4	3,310	29	1.0	-	-	-	-
Tennessee	12	128	25	0.4	12	128	25	0.4	-	-	-	-
Texas	37	3,196	26	0.5	37	3,196	26	0.5	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	10	10	25	0.2	10	10	25	0.2	-	-	-	-
Virginia	7	7	25	0.5	7	7	25	0.5	-	-	-	-
Washington	156	31,560	27	1.8	110	24,825	27	1.8	46	6,735	27	1.9
West Virginia	3	3	25	0.2	3	3	25	0.2	-	-	-	-
Wisconsin	16	5,625	22	0.5	16	5,625	22	0.5	-	-	-	-
Wyoming	224	35,181	25	1.9	50	9,973	23	1.7	174	25,208	25	2.0
Water Resources Regions												
Region 01 New England	25	25	24	0.3	25	25	24	0.3	-	-	-	-
Region 02 Mid-Atlantic	20	2,116	(D)	0.7	20	2,116	(D)	0.7	-	-	-	-
Region 03 South Atlantic-Gulf	80	3,751	36	0.5	76	3,743	36	0.5	4	8	25	1.5
Region 04 Great Lakes	61	11,173	21	0.3	61	11,173	21	0.3	-	-	-	-
Region 05 Ohio	8	8	28	0.6	8	8	28	0.6	-	-	-	-
Region 06 Tennessee	11	98	25	0.6	11	98	25	0.6	-	-	-	-
Region 07 Upper Mississippi	78	31,803	23	0.6	78	31,803	23	0.6	-	-	-	-
Region 08 Lower Mississippi	4	(D)	12	(D)	3	230	(D)	0.4	1	(D)	(D)	(D)
Region 09 Souris-Red-Rainy	54	13,538	23	0.5	54	13,538	23	0.5	-	-	-	-
Region 10 Missouri	810	195,226	25	1.2	516	148,249	25	1.0	294	46,977	25	1.9
Region 11 Arkansas-White-Red	19	(D)	26	(D)	9	(D)	13	(D)	10	(D)	33	(D)
Region 12 Texas-Gulf	41	4,496	25	0.6	41	4,496	25	0.6	-	-	-	-
Region 13 Rio Grande	34	1,194	16	1.5	24	1,164	16	1.5	10	30	9	1.0
Region 14 Upper Colorado	39	10,123	(D)	1.0	1	(D)	(D)	(D)	38	(D)	(D)	(D)
Region 15 Lower Colorado	35	9,828	17	2.2	28	7,713	18	2.2	7	2,115	14	2.4
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	1,301	106,565	26	1.9	576	71,011	26	1.8	725	35,554	26	2.2
Region 18 California	164	38,855	26	2.3	77	16,405	28	1.6	87	22,450	24	2.8
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	9	31	40	0.3	9	31	40	0.3	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Rice											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	5,613	3,132,894	80	2.9	146	33,690	68	1.4	5,467	3,099,204	80	2.9
2008 [1]	5,265	2,683,363	70	2.3	75	48,154	71	2.1	5,190	2,635,209	70	2.3
2013 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	2,099	1,294,506	78	2.0	42	11,897	77	1.6	2,057	1,282,609	78	2.0
California	2,026	1,051,374	88	4.5	-	-	-	-	2,026	1,051,374	88	4.5
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	7	(D)	(D)	(D)	-	-	-	-	7	(D)	(D)	(D)
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	2	(D)	(D)	(D)	-	-	-	-	2	(D)	(D)	(D)
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	1	(D)	(D)	(D)	-	-	-	-	1	(D)	(D)	(D)
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	716	448,885	73	2.1	19	4,618	75	1.7	697	444,267	73	2.1
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	215	108,920	76	2.5	-	-	-	-	215	108,920	76	2.5
Missouri	260	133,780	74	2.0	29	12,975	72	1.3	231	120,805	74	2.1
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	1	(D)	(D)	(D)	-	-	-	-	1	(D)	(D)	(D)
Texas	286	85,752	65	2.3	56	4,200	25	0.5	230	81,552	67	2.4
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	7	(D)	(D)	(D)	-	-	-	-	7	(D)	(D)	(D)
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	1	(D)	(D)	(D)	-	-	-	-	1	(D)	(D)	(D)
Region 08 Lower Mississippi	2,759	1,659,731	77	2.1	58	18,140	75	1.8	2,701	1,641,591	77	2.1
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	532	326,425	77	1.8	32	11,350	73	1.0	500	315,075	77	1.8
Region 12 Texas-Gulf	286	85,752	65	2.3	56	4,200	25	0.5	230	81,552	67	2.4
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	2,026	1,051,374	88	4.5	-	-	-	-	2,026	1,051,374	88	4.5
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	(D)	(D)	-	-	-	-	2	(D)	(D)	(D)

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Other small grains (barley, oats, rye, etc.) (see text)								
				Primary method of distribution					
				Pressure system			Gravity system		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	6,258	1,209,527	1.4	3,949	887,964	1.3	2,309	321,563	1.6
2008 [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	323	61,072	2.8	46	12,362	2.9	277	48,710	2.8
Arkansas	-	-	-	-	-	-	-	-	-
California	334	77,523	1.8	192	29,285	1.9	142	48,238	1.7
Colorado	242	58,106	1.3	189	54,046	1.3	53	4,060	1.0
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	12	1,495	0.4	12	1,495	0.4	-	-	-
Florida	29	3,443	0.8	29	3,443	0.8	-	-	-
Georgia	50	3,615	0.7	50	3,615	0.7	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Idaho	1,452	442,001	1.3	1,106	407,572	1.3	346	34,429	1.3
Illinois	4	300	0.8	4	300	0.8	-	-	-
Indiana	5	32	0.3	5	32	0.3	-	-	-
Iowa	5	10	0.3	5	10	0.3	-	-	-
Kansas	100	13,669	1.2	99	(D)	(D)	1	(D)	(D)
Kentucky	7	42	0.9	7	42	0.9	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-
Maine	2	(D)	(D)	2	(D)	(D)	-	-	-
Maryland	6	1,264	0.2	6	1,264	0.2	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-
Michigan	10	1,107	0.5	10	1,107	0.5	-	-	-
Minnesota	56	2,026	0.3	56	2,026	0.3	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-
Montana	1,114	242,871	1.1	389	130,346	1.1	725	112,525	1.0
Nebraska	103	14,904	0.4	103	14,904	0.4	-	-	-
Nevada	66	9,495	2.4	32	5,323	2.0	34	4,172	2.8
New Hampshire	1	(D)	(D)	1	(D)	(D)	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-
New Mexico	177	11,704	1.9	75	6,591	2.4	102	5,113	1.3
New York	2	(D)	(D)	2	(D)	(D)	-	-	-
North Carolina	28	1,712	0.9	28	1,712	0.9	-	-	-
North Dakota	41	7,039	0.8	21	3,115	0.7	20	3,924	0.9
Ohio	-	-	-	-	-	-	-	-	-
Oklahoma	41	6,192	1.0	41	6,192	1.0	-	-	-
Oregon	113	14,907	1.4	103	12,376	1.4	10	2,531	1.8
Pennsylvania	3	105	0.4	3	105	0.4	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
South Dakota	22	1,149	0.7	8	(D)	(D)	14	(D)	(D)
Tennessee	1	(D)	(D)	1	(D)	(D)	-	-	-
Texas	282	91,518	1.2	282	91,518	1.2	-	-	-
Utah	1,007	43,757	1.7	626	25,079	1.5	381	18,678	1.9
Vermont	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-
Washington	139	21,409	1.3	92	19,556	1.3	47	1,853	1.3
West Virginia	3	3	0.2	3	3	0.2	-	-	-
Wisconsin	34	1,889	0.3	34	1,889	0.3	-	-	-
Wyoming	444	74,683	1.8	287	38,128	1.8	157	36,555	1.8
Water Resources Regions									
Region 01 New England	3	405	0.9	3	405	0.9	-	-	-
Region 02 Mid-Atlantic	23	2,924	0.4	23	2,924	0.4	-	-	-
Region 03 South Atlantic-Gulf	107	8,770	0.8	107	8,770	0.8	-	-	-
Region 04 Great Lakes	17	1,209	0.5	17	1,209	0.5	-	-	-
Region 05 Ohio	10	(D)	(D)	10	(D)	(D)	-	-	-
Region 06 Tennessee	1	(D)	(D)	1	(D)	(D)	-	-	-
Region 07 Upper Mississippi	78	2,988	0.4	78	2,988	0.4	-	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	21	2,231	0.4	17	1,307	0.2	4	924	0.5
Region 10 Missouri	1,667	339,937	1.2	731	185,202	1.2	936	154,735	1.2
Region 11 Arkansas-White-Red	250	56,986	1.2	245	55,346	1.2	5	1,640	1.1
Region 12 Texas-Gulf	151	50,262	1.2	151	50,262	1.2	-	-	-
Region 13 Rio Grande	242	55,931	1.4	143	50,498	1.4	99	5,433	1.4
Region 14 Upper Colorado	358	12,511	2.0	213	10,965	2.1	145	1,546	1.5
Region 15 Lower Colorado	222	61,186	2.8	54	13,302	2.9	168	47,884	2.8
Region 16 Great Basin	1,140	80,268	1.3	678	58,468	1.0	462	21,800	2.0
Region 17 Pacific Northwest	1,626	449,786	1.4	1,273	410,223	1.4	353	39,563	1.4
Region 18 California	342	84,068	1.7	205	36,030	1.8	137	48,038	1.7
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre
United States 2013	46,181	5,512,871	5.1	2.3	26,645	3,545,400	5.1	2.1	19,536	1,967,471	5.3	2.8
2008 [1]	48,315	6,187,983	4.5	2.4	24,879	3,596,494	4.4	2.0	23,436	2,591,489	4.6	3.0
2013 DATA												
Alabama	5	35	4.1	1.1	2	(D)	(D)	(D)	3	(D)	(D)	(D)
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,224	270,449	8.3	5.4	260	59,877	7.7	5.2	964	210,572	8.4	5.5
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	2,412	664,318	6.7	3.8	1,213	181,932	6.3	3.1	1,199	482,386	6.8	4.1
Colorado	6,561	558,389	3.7	1.8	2,527	275,953	4.1	1.9	4,034	282,436	3.2	1.8
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Florida	3	219	4.0	1.2	3	219	4.0	1.2	-	-	-	-
Georgia	4	48	8.0	0.3	4	48	8.0	0.3	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	7,118	872,207	5.3	1.9	4,467	733,315	5.2	1.9	2,651	138,892	5.4	2.0
Illinois	19	1,001	6.2	0.2	19	1,001	6.2	0.2	-	-	-	-
Indiana	50	2,943	5.5	0.4	50	2,943	5.5	0.4	-	-	-	-
Iowa	9	443	4.9	0.6	9	443	4.9	0.6	-	-	-	-
Kansas	524	152,293	5.8	1.6	517	(D)	(D)	1.6	7	(D)	(D)	1.1
Kentucky	5	50	5.6	0.2	5	50	5.6	0.2	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Maryland	9	288	5.4	0.4	6	168	5.3	0.5	3	120	5.6	0.3
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	94	11,244	6.2	0.5	94	11,244	6.2	0.5	-	-	-	-
Minnesota	240	14,306	5.2	0.6	240	14,306	5.2	0.6	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	8	352	6.0	1.3	8	352	6.0	1.3	-	-	-	-
Montana	3,354	549,849	3.7	1.5	1,721	335,257	3.7	1.4	1,633	214,592	3.5	1.6
Nebraska	3,234	237,544	5.3	1.0	2,481	215,058	5.3	1.0	753	22,486	5.6	0.9
Nevada	1,231	321,610	4.9	3.2	622	213,210	5.1	3.3	609	108,400	4.5	3.1
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	17	230	1.6	0.1	17	230	1.6	0.1	-	-	-	-
New Mexico	3,767	195,157	5.1	2.2	862	112,694	5.6	2.4	2,905	82,463	4.4	1.9
New York	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
North Carolina	17	1,700	5.6	0.2	17	1,700	5.6	0.2	-	-	-	-
North Dakota	96	9,055	4.7	0.7	56	7,924	4.6	0.6	40	1,131	5.1	1.2
Ohio	5	255	5.1	0.4	5	255	5.1	0.4	-	-	-	-
Oklahoma	91	17,689	5.2	1.1	89	(D)	(D)	(D)	2	(D)	(D)	(D)
Oregon	2,406	317,447	4.7	2.5	1,852	255,282	4.8	2.4	554	62,165	4.5	2.6
Pennsylvania	41	763	5.5	0.2	41	763	5.5	0.2	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
South Dakota	488	57,964	4.2	1.2	246	26,955	4.5	1.1	242	31,009	3.9	1.4
Tennessee	14	557	3.0	0.4	12	(D)	(D)	(D)	2	(D)	(D)	(D)
Texas	661	77,825	6.4	1.9	562	65,936	6.3	1.9	99	11,889	7.0	1.8
Utah	6,697	521,184	4.7	2.2	4,489	371,971	4.7	2.2	2,208	149,213	4.9	2.0
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	3	(D)	(D)	(D)	3	(D)	(D)	(D)	-	-	-	-
Washington	2,709	275,809	6.3	2.3	2,460	257,314	6.3	2.3	249	18,495	6.6	2.3
West Virginia	3	42	5.6	0.9	3	42	5.6	0.9	-	-	-	-
Wisconsin	201	21,513	5.6	0.6	201	21,513	5.6	0.6	-	-	-	-
Wyoming	2,855	355,859	3.7	1.6	1,476	205,266	3.8	1.6	1,379	150,593	3.6	1.6
Water Resources Regions												
Region 01 New England	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Region 02 Mid-Atlantic	69	1,303	4.9	(D)	66	(D)	(D)	0.2	3	(D)	(D)	(D)
Region 03 South Atlantic-Gulf	32	3,744	3.4	0.6	29	3,729	3.4	0.6	3	15	3.0	2.2
Region 04 Great Lakes	176	16,981	6.3	0.5	176	16,981	6.3	0.5	-	-	-	-
Region 05 Ohio	36	2,094	(D)	0.3	34	(D)	(D)	(D)	2	(D)	(D)	(D)
Region 06 Tennessee	12	(D)	2.9	0.4	12	(D)	2.9	0.4	-	-	-	-
Region 07 Upper Mississippi	388	30,443	5.3	0.6	388	30,443	5.3	0.6	-	-	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	60	5,985	5.4	0.7	47	5,749	5.4	0.7	13	236	4.5	2.2
Region 10 Missouri	10,886	1,242,994	4.2	1.4	6,090	782,359	4.5	1.4	4,796	460,635	3.8	1.5
Region 11 Arkansas-White-Red	2,077	331,698	4.5	1.5	968	208,338	5.4	1.5	1,109	123,360	3.0	1.4
Region 12 Texas-Gulf	529	50,475	5.6	1.8	515	45,675	5.6	1.8	14	4,800	5.9	2.4
Region 13 Rio Grande	3,784	267,899	4.8	2.1	1,101	185,890	5.0	2.2	2,683	82,009	4.5	2.0
Region 14 Upper Colorado	5,306	347,961	3.7	2.2	2,559	203,483	3.9	2.2	2,747	144,478	3.4	2.3
Region 15 Lower Colorado	1,386	296,553	8.1	5.3	483	75,225	7.3	4.7	903	221,328	8.3	5.5
Region 16 Great Basin	6,239	721,162	4.9	2.6	3,874	490,984	4.9	2.7	2,365	230,178	4.7	2.5
Region 17 Pacific Northwest	12,501	1,492,133	5.2	2.1	8,803	1,268,507	5.2	2.0	3,698	223,626	5.2	2.2
Region 18 California	2,699	700,959	6.6	3.7	1,499	224,373	6.0	3.0	1,200	476,586	6.8	4.0
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other hay (dry hay, greenchop, and silage)											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre [2] (tons, dry)	Average acre-feet applied per acre
United States 2013	28,142	3,300,889	3.7	1.8	14,595	1,462,829	4.2	1.5	13,547	1,838,060	3.3	2.0
2008 [1]	29,553	3,351,986	2.8	1.8	13,767	1,110,400	3.0	1.4	15,786	2,241,586	2.7	2.0
2013 DATA												
Alabama	37	2,997	5.7	0.7	30	2,326	6.0	0.6	7	671	4.7	1.3
Alaska	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Arizona	543	47,960	4.7	3.9	138	11,895	2.9	3.4	405	36,065	5.4	4.0
Arkansas	183	12,102	4.9	0.4	147	7,482	6.2	0.2	36	4,620	2.9	0.6
California	2,212	437,280	6.8	2.8	363	96,984	5.1	2.5	1,849	340,296	7.2	2.8
Colorado	4,314	427,628	2.8	1.9	1,694	137,997	3.2	1.7	2,620	289,631	2.6	2.0
Connecticut	6	39	4.0	0.2	3	(D)	(D)	0.2	3	(D)	(D)	0.2
Delaware	9	685	3.9	0.3	9	685	3.9	0.3	-	-	-	-
Florida	138	19,540	5.3	0.5	134	17,654	5.5	0.6	4	1,886	4.1	0.1
Georgia	219	22,954	4.9	0.5	219	22,954	4.9	0.5	-	-	-	-
Hawaii	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Idaho	1,553	177,917	3.0	1.8	713	84,764	3.2	1.8	840	93,153	2.9	1.7
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	15	1,160	3.9	0.8	15	1,160	3.9	0.8	-	-	-	-
Iowa	6	60	4.5	0.5	6	60	4.5	0.5	-	-	-	-
Kansas	469	63,238	5.1	1.0	434	61,551	5.1	1.0	35	1,687	5.0	0.4
Kentucky	35	729	2.2	0.4	17	528	2.0	0.4	18	201	2.8	0.6
Louisiana	29	4,039	2.3	0.5	14	2,525	2.6	0.5	15	1,514	1.9	0.6
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	5	106	2.8	0.1	5	106	2.8	0.1	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	3	220	4.0	0.3	3	220	4.0	0.3	-	-	-	-
Minnesota	30	2,450	4.8	0.3	18	1,850	5.0	0.3	12	600	4.2	0.5
Mississippi	23	335	2.5	0.4	11	275	2.5	0.4	12	60	2.5	0.5
Missouri	104	4,798	5.7	0.8	104	4,798	5.7	0.8	-	-	-	-
Montana	2,221	312,134	2.2	1.4	427	76,548	2.5	1.5	1,794	235,586	2.1	1.4
Nebraska	513	48,958	5.1	0.7	349	46,758	5.2	0.7	164	2,200	2.2	0.7
Nevada	695	115,056	2.9	2.1	170	26,279	3.7	2.6	525	88,777	2.7	1.9
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
New Mexico	1,058	86,015	4.8	1.5	266	59,147	5.4	1.3	792	26,868	3.7	1.9
New York	11	330	1.7	0.2	7	250	1.8	(D)	4	80	1.7	(D)
North Carolina	293	16,688	4.5	0.4	278	16,463	4.5	0.4	15	225	3.0	0.2
North Dakota	10	632	3.8	0.3	3	450	3.8	0.3	7	182	3.8	0.3
Ohio	4	212	5.6	0.3	4	212	5.6	0.3	-	-	-	-
Oklahoma	359	40,701	5.4	1.0	359	40,701	5.4	1.0	-	-	-	-
Oregon	3,710	328,487	2.6	1.9	2,696	165,935	3.3	2.0	1,014	162,552	1.9	1.9
Pennsylvania	9	660	4.3	1.0	9	660	4.3	1.0	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	80	1,386	5.2	0.5	80	1,386	5.2	0.5	-	-	-	-
South Dakota	32	3,386	2.7	0.8	21	2,026	3.4	0.6	11	1,360	1.7	1.2
Tennessee	41	1,064	3.9	0.5	40	(D)	(D)	(D)	1	(D)	(D)	(D)
Texas	3,097	375,908	4.8	1.2	2,577	350,533	4.9	1.2	520	25,375	3.3	1.4
Utah	2,407	160,211	3.3	2.3	1,288	68,895	3.7	2.4	1,119	91,316	2.9	2.2
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	14	140	4.0	0.3	14	140	4.0	0.3	-	-	-	-
Washington	1,687	125,011	5.3	2.3	1,473	86,516	5.5	1.9	214	38,495	4.9	3.3
West Virginia	3	45	4.0	0.7	3	45	4.0	0.7	-	-	-	-
Wisconsin	47	4,618	4.0	0.8	47	4,618	4.0	0.8	-	-	-	-
Wyoming	1,912	452,370	1.8	1.4	401	57,730	1.8	0.9	1,511	394,640	1.8	1.5
Water Resources Regions												
Region 01 New England	6	39	4.0	0.2	3	(D)	(D)	0.2	3	(D)	(D)	0.2
Region 02 Mid-Atlantic	45	1,721	3.8	0.6	41	1,641	3.9	0.6	4	80	1.7	0.2
Region 03 South Atlantic-Gulf	782	63,586	5.0	0.5	744	60,744	5.0	0.5	38	2,842	4.1	0.4
Region 04 Great Lakes	23	1,830	3.8	0.9	23	1,830	3.8	0.9	-	-	-	-
Region 05 Ohio	40	1,196	3.8	0.7	28	1,001	4.0	0.8	12	195	2.9	0.6
Region 06 Tennessee	45	1,477	3.4	0.3	39	(D)	(D)	0.3	6	(D)	(D)	0.4
Region 07 Upper Mississippi	74	5,992	4.2	0.6	62	5,392	4.2	0.6	12	600	4.2	0.5
Region 08 Lower Mississippi	107	8,251	4.6	0.5	81	6,436	5.2	0.4	26	1,815	2.5	0.8
Region 09 Souris-Red-Rainy	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Region 10 Missouri	5,017	718,216	2.4	1.3	2,092	201,286	3.5	1.0	2,925	516,930	1.9	1.5
Region 11 Arkansas-White-Red	1,680	279,720	5.2	1.2	1,431	248,810	5.1	1.2	249	30,910	6.0	1.0
Region 12 Texas-Gulf	2,720	267,647	4.7	1.2	2,184	248,999	4.8	1.2	536	18,648	2.9	1.6
Region 13 Rio Grande	1,066	90,804	3.7	1.9	259	49,365	3.5	1.8	807	41,439	4.0	1.9
Region 14 Upper Colorado	3,417	428,570	2.3	2.0	863	86,402	2.9	2.0	2,554	342,168	2.1	2.0
Region 15 Lower Colorado	605	52,972	4.6	3.8	118	12,087	2.9	3.4	487	40,885	5.1	4.0
Region 16 Great Basin	2,463	244,330	3.1	2.1	1,150	80,246	3.8	2.3	1,313	164,084	2.7	2.1
Region 17 Pacific Northwest	7,676	667,604	3.2	1.9	4,999	340,900	3.7	1.9	2,677	326,704	2.6	1.8
Region 18 California	2,370	465,758	6.5	2.7	472	115,019	4.7	2.5	1,898	350,739	7.1	2.8
Region 19 Alaska	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-
Region 20 Hawaii	2	(D)	(D)	(D)	2	(D)	(D)	(D)	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Peanuts for nuts											
					Primary method of distribution							
					Pressure system				Gravity system			
	Farms	Irrigated acres harvested	Average yield per acre (pounds)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (pounds)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (pounds)	Average acre-feet applied per acre
United States 2013	1,605	371,634	4,533	0.7	1,566	360,505	4,555	0.7	39	11,129	3,831	0.8
2008 [1]	2,535	540,577	4,187	1.0	2,482	(D)	(D)	(D)	53	(D)	(D)	(D)
2013 DATA												
Alabama	29	5,344	4,608	0.4	29	5,344	4,608	0.4	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	14	6,726	3,840	0.7	-	-	-	-	14	6,726	3,840	0.7
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	77	23,997	4,613	0.5	77	23,997	4,613	0.5	-	-	-	-
Georgia	877	199,212	4,955	0.5	877	199,212	4,955	0.5	-	-	-	-
Hawaii	7	7	4,576	0.2	-	-	-	-	7	7	4,576	0.2
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	9	1,731	4,277	0.4	6	981	3,954	0.4	3	750	4,700	0.5
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	25	6,684	3,653	1.2	13	3,278	3,588	1.2	12	3,406	3,716	1.2
Missouri	3	240	2,500	0.2	-	-	-	-	3	240	2,500	0.2
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	10	3,235	3,009	1.0	10	3,235	3,009	1.0	-	-	-	-
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	41	4,541	4,764	0.3	41	4,541	4,764	0.3	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	78	10,231	4,066	1.3	78	10,231	4,066	1.3	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	70	12,181	4,357	0.4	70	12,181	4,357	0.4	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	358	97,053	3,872	1.4	358	97,053	3,872	1.4	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	7	452	4,352	0.3	7	452	4,352	0.3	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	1,101	245,727	4,880	0.5	1,101	245,727	4,880	0.5	-	-	-	-
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 08 Lower Mississippi	36	(D)	(D)	(D)	19	(D)	(D)	(D)	17	6,663	4,046	0.9
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	100	15,600	3,934	1.1	85	11,141	4,104	1.3	15	4,459	3,510	0.7
Region 12 Texas-Gulf	360	98,978	3,843	1.4	360	98,978	3,843	1.4	-	-	-	-
Region 13 Rio Grande	1	(D)	(D)	(D)	1	(D)	(D)	(D)	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	7	7	4,576	0.2	-	-	-	-	7	7	4,576	0.2

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All cotton							
					Primary method of distribution			
					Sprinkler system			
	Farms	Irrigated acres harvested	Average yield per acre (lbs, lint)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (lbs, lint)	Average acre-feet applied per acre
United States 2013	6,804	2,954,457	1,172	1.3	4,723	2,009,414	1,061	1.0
2008 [1]	6,612	3,123,664	1,103	1.3	4,343	1,854,449	1,057	1.0
2013 DATA								
Alabama	55	11,987	1,113	0.4	52	11,500	1,112	0.4
Alaska	-	-	-	-	-	-	-	-
Arizona	368	171,902	1,506	4.5	67	19,383	1,514	4.0
Arkansas	323	246,842	1,197	0.9	139	117,414	1,151	0.8
California	464	274,834	1,841	2.9	74	37,371	1,754	3.4
Colorado	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-
Florida	50	16,951	971	0.6	44	16,771	971	0.6
Georgia	1,037	362,308	1,026	0.5	1,032	361,858	1,026	0.5
Hawaii	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-
Illinois	8	286	1,473	1.2	-	-	-	-
Indiana	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-
Kansas	45	13,478	1,101	0.8	37	11,561	(D)	0.8
Kentucky	-	-	-	-	-	-	-	-
Louisiana	67	35,673	1,361	0.6	17	8,745	1,421	(D)
Maine	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-
Mississippi	259	124,596	1,321	0.8	172	72,712	1,327	0.7
Missouri	220	180,128	1,008	1.0	78	62,911	1,044	0.7
Montana	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-
New Mexico	145	30,931	1,662	1.7	106	(D)	1,709	1.2
New York	-	-	-	-	-	-	-	-
North Carolina	56	13,257	1,081	0.5	54	(D)	(D)	(D)
North Dakota	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Oklahoma	120	26,436	1,030	1.2	98	24,287	1,025	1.2
Oregon	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	69	15,637	912	0.5	67	(D)	(D)	(D)
South Dakota	-	-	-	-	-	-	-	-
Tennessee	34	11,327	1,088	0.5	30	10,184	(D)	0.5
Texas	3,484	1,417,884	1,037	1.1	2,656	1,205,009	1,007	1.0
Utah	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-
Water Resources Regions								
Region 01 New England	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	1,294	424,199	1,026	0.5	1,277	421,788	1,026	0.5
Region 04 Great Lakes	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-
Region 06 Tennessee	20	2,649	1,314	0.5	19	(D)	(D)	(D)
Region 07 Upper Mississippi	8	286	1,473	1.2	-	-	-	-
Region 08 Lower Mississippi	836	587,391	1,170	0.9	388	263,758	1,175	0.8
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	837	288,674	1,192	1.0	766	267,398	1,194	1.0
Region 12 Texas-Gulf	2,631	1,174,298	1,007	1.1	2,053	986,156	967	1.1
Region 13 Rio Grande	346	30,224	1,464	2.2	79	(D)	(D)	(D)
Region 14 Upper Colorado	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	373	175,902	1,506	4.5	67	19,383	1,514	4.0
Region 16 Great Basin	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-
Region 18 California	459	270,834	1,847	2.8	74	37,371	1,754	3.4
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All cotton - con.							
	Primary method of distribution - con.							
	Gravity system				Low-flow irrigation (drip, trickle, or micro sprinklers)			
	Farms	Acres	Average yield per acres (lbs, lint)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (lbs, lint)	Average acre-feet applied per acre
United States 2013	1,583	774,528	1,409	2.2	498	170,515	1,398	1.6
2008 [1]	2,080	1,169,918	1,183	1.9	189	99,297	1,021	1.2
2013 DATA								
Alabama	2	(D)	(D)	(D)	1	(D)	(D)	(D)
Alaska	-	-	-	-	-	-	-	-
Arizona	293	144,087	1,503	4.6	8	8,432	1,548	4.5
Arkansas	184	129,428	1,238	1.0	-	-	-	-
California	320	201,300	1,873	2.9	70	36,163	1,757	2.3
Colorado	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-
Florida	6	180	982	0.6	-	-	-	-
Georgia	-	-	-	-	5	450	900	0.3
Hawaii	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-
Illinois	2	(D)	(D)	(D)	6	(D)	(D)	(D)
Indiana	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-
Kansas	2	(D)	(D)	(D)	6	(D)	1,279	(D)
Kentucky	-	-	-	-	-	-	-	-
Louisiana	50	26,928	1,341	(D)	-	-	-	-
Maine	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-
Mississippi	87	51,884	1,312	0.8	-	-	-	-
Missouri	137	114,887	989	1.2	5	2,330	943	0.8
Montana	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-
New Mexico	17	6,143	1,499	3.4	22	(D)	1,640	2.2
New York	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	2	(D)	(D)	(D)
North Dakota	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Oklahoma	19	1,849	965	1.5	3	300	1,800	1.1
Oregon	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	2	(D)	(D)	(D)	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-
Tennessee	3	(D)	1,218	(D)	1	(D)	(D)	(D)
Texas	459	94,885	1,111	1.1	369	117,990	1,286	1.2
Utah	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-
Water Resources Regions								
Region 01 New England	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	10	(D)	(D)	0.5	7	(D)	(D)	0.6
Region 04 Great Lakes	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	1	(D)	(D)	(D)
Region 07 Upper Mississippi	2	(D)	(D)	(D)	6	(D)	(D)	(D)
Region 08 Lower Mississippi	442	321,300	1,168	1.0	6	2,333	943	0.8
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	52	12,599	1,172	0.9	19	8,677	1,169	1.2
Region 12 Texas-Gulf	225	84,967	1,119	1.2	353	103,175	1,290	1.1
Region 13 Rio Grande	239	9,433	1,267	(D)	28	(D)	(D)	2.8
Region 14 Upper Colorado	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	298	148,087	1,503	4.6	8	8,432	1,548	4.5
Region 16 Great Basin	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-
Region 18 California	315	197,300	1,880	2.9	70	36,163	1,757	2.3
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in vegetables											
				Primary method of distribution								
				Sprinkler system			Gravity system			Low-flow irrigation (drip, trickle, or micro sprinklers)		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	24,157	2,993,600	2.0	11,113	1,822,915	1.7	1,945	340,345	2.6	11,099	830,341	2.2
2008 [1]	16,899	3,084,879	2.0	8,443	2,043,430	1.7	3,079	447,561	2.8	5,377	593,888	2.3
2013 DATA												
Alabama	264	5,947	0.7	63	2,757	0.6	20	610	0.8	181	2,579	0.7
Alaska	71	453	0.5	39	414	0.5	2	(D)	(D)	30	(D)	(D)
Arizona	595	102,972	3.1	142	15,396	4.3	296	74,479	3.0	157	13,097	2.7
Arkansas	251	7,692	0.5	41	307	0.8	56	1,152	0.8	154	6,232	0.4
California	3,374	1,018,036	2.8	1,391	280,298	3.1	183	155,814	3.1	1,800	581,924	2.6
Colorado	351	91,613	1.9	208	76,399	1.8	82	12,879	2.7	61	2,335	2.0
Connecticut	269	1,460	0.6	130	229	0.3	16	176	0.1	123	1,055	0.7
Delaware	109	15,930	0.4	47	13,385	0.4	9	9	0.5	53	2,536	0.4
Florida	537	170,941	1.2	215	52,201	1.2	48	43,402	1.1	274	75,338	1.2
Georgia	558	94,985	0.6	352	78,903	0.6	14	26	1.4	192	16,057	0.4
Hawaii	334	6,788	1.3	91	838	1.9	9	24	1.1	234	5,927	1.2
Idaho	848	381,698	2.1	684	363,937	2.1	121	10,693	2.5	43	7,068	1.5
Illinois	331	26,683	0.6	132	23,970	0.6	22	1,612	0.8	177	1,102	0.3
Indiana	326	11,312	0.5	110	8,258	0.5	12	12	0.1	204	3,042	0.5
Iowa	226	1,691	0.6	82	1,136	0.7	17	20	0.8	127	536	0.5
Kansas	235	4,139	0.9	31	1,787	0.9	63	56	0.1	141	2,297	1.0
Kentucky	424	2,007	0.7	84	183	0.5	18	115	0.2	322	1,710	0.8
Louisiana	186	3,186	0.4	80	329	0.3	55	1,888	0.4	51	969	0.3
Maine	312	6,896	0.3	149	6,299	0.3	3	15	0.1	160	582	0.4
Maryland	337	14,678	0.4	143	10,362	0.4	11	40	0.1	183	4,277	0.4
Massachusetts	312	8,290	0.3	186	7,599	0.3	-	-	-	126	691	0.3
Michigan	954	80,931	0.6	651	76,512	0.6	-	-	-	303	4,419	0.4
Minnesota	460	46,410	0.6	341	45,740	0.6	-	-	-	119	670	0.3
Mississippi	188	371	0.2	160	(D)	0.2	2	(D)	(D)	26	33	(D)
Missouri	509	14,859	1.0	117	12,533	1.0	16	32	0.6	376	2,293	1.1
Montana	366	5,269	1.4	326	5,152	1.4	10	92	0.1	30	26	1.4
Nebraska	233	10,172	0.8	28	9,929	0.8	22	36	0.3	183	207	0.2
Nevada	103	8,632	3.4	4	5,619	3.1	63	2,990	4.0	36	23	4.0
New Hampshire	210	2,580	0.2	78	1,075	0.2	3	9	2.0	129	1,496	0.2
New Jersey	535	31,606	0.6	289	20,193	0.6	5	65	1.3	241	11,348	0.7
New Mexico	1,049	23,508	1.5	295	12,203	1.3	407	7,302	1.2	347	4,003	2.7
New York	686	25,878	0.5	413	21,475	0.4	21	497	0.4	252	3,906	1.0
North Carolina	760	17,507	0.5	259	8,221	0.3	37	713	0.3	464	8,573	0.6
North Dakota	65	29,283	0.8	52	29,270	(D)	-	-	-	13	13	(D)
Ohio	550	19,415	0.4	155	10,724	0.5	28	33	0.4	367	8,658	0.3
Oklahoma	274	3,617	1.4	203	3,321	1.5	-	-	-	71	296	0.6
Oregon	916	122,258	1.8	553	111,186	1.7	26	4,385	3.7	337	6,687	2.2
Pennsylvania	1,512	11,474	0.3	214	2,899	(D)	39	305	(D)	1,259	8,269	0.3
Rhode Island	109	442	0.1	26	235	0.1	-	-	-	83	207	0.1
South Carolina	321	15,032	0.7	126	7,719	(D)	9	(D)	(D)	186	(D)	0.8
South Dakota	82	233	0.4	56	197	0.4	-	-	-	26	36	0.4
Tennessee	284	6,955	0.4	96	(D)	0.2	18	(D)	0.6	170	3,653	0.6
Texas	943	63,021	1.7	474	30,187	1.3	52	10,561	1.7	417	22,273	2.1
Utah	204	3,845	2.1	42	2,124	2.7	24	1,554	1.4	138	167	1.3
Vermont	204	1,306	0.4	96	925	0.2	11	11	0.9	97	370	0.8
Virginia	353	7,432	0.6	96	4,820	0.6	-	-	-	257	2,612	0.4
Washington	1,271	269,346	2.3	1,052	258,992	2.4	61	6,490	1.8	158	3,864	2.3
West Virginia	95	424	0.5	34	184	0.3	7	95	0.2	54	146	1.0
Wisconsin	643	193,310	0.7	469	192,893	0.7	15	27	0.1	159	391	0.4
Wyoming	28	1,088	1.0	8	23	0.9	12	1,059	1.0	8	6	1.0
Water Resources Regions												
Region 01 New England	1,255	19,897	0.3	601	15,579	0.3	22	200	0.2	632	4,118	0.4
Region 02 Mid-Atlantic	3,057	94,872	0.5	1,058	65,091	0.4	83	552	0.6	1,916	29,230	0.5
Region 03 South Atlantic-Gulf	2,483	303,638	0.9	1,072	150,072	0.8	127	45,710	1.1	1,284	107,856	1.0
Region 04 Great Lakes	1,838	144,719	0.6	1,051	131,703	0.6	14	458	0.4	773	12,558	0.5
Region 05 Ohio	1,279	27,432	0.5	293	18,188	0.5	64	172	(D)	922	9,072	(D)
Region 06 Tennessee	397	4,868	0.6	185	398	0.7	14	81	0.4	198	4,389	0.6
Region 07 Upper Mississippi	1,484	214,082	0.7	850	209,234	0.7	54	1,659	0.8	580	3,189	0.4
Region 08 Lower Mississippi	306	26,389	0.7	102	15,656	0.8	58	2,737	0.6	146	7,996	0.6
Region 09 Souris-Red-Rainy	81	23,151	0.7	75	23,145	0.7	-	-	-	6	6	0.1
Region 10 Missouri	1,082	59,791	1.4	451	46,543	1.2	79	11,901	2.6	552	1,347	0.4
Region 11 Arkansas-White-Red	862	21,663	1.5	320	14,706	1.6	186	1,567	2.2	356	5,390	1.3
Region 12 Texas-Gulf	909	50,049	1.4	470	24,137	1.1	51	9,661	1.5	388	16,251	1.8
Region 13 Rio Grande	901	68,694	2.0	348	55,872	1.8	200	2,820	2.3	353	10,003	2.9
Region 14 Upper Colorado	424	20,434	1.5	147	13,747	1.7	220	6,518	1.1	57	170	1.4
Region 15 Lower Colorado	476	102,685	3.2	35	15,229	4.4	284	74,359	3.0	157	13,097	2.7
Region 16 Great Basin	318	27,034	2.6	64	22,335	2.5	87	(D)	3.1	167	(D)	1.5
Region 17 Pacific Northwest	3,183	752,220	2.1	2,433	713,027	2.1	208	21,568	2.5	542	17,625	1.9
Region 18 California	3,417	1,024,741	2.8	1,428	287,002	3.0	183	155,814	3.1	1,806	581,925	2.6
Region 19 Alaska	71	453	0.5	39	414	0.5	2	(D)	(D)	30	(D)	(D)
Region 20 Hawaii	334	6,788	1.3	91	838	1.9	9	24	1.1	234	5,927	1.2

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sweet corn							
					Primary method of distribution			
					Sprinkler system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	5,923	321,992	207	1.3	3,275	260,692	189	1.2
2008 [1]	4,341	294,855	(NA)	1.5	2,578	225,752	(NA)	1.3
2013 DATA								
Alabama	81	633	139	0.3	33	517	139	0.2
Alaska	-	-	-	-	-	-	-	-
Arizona	385	1,382	49	0.5	228	798	48	0.3
Arkansas	43	2,944	80	1.0	-	-	-	-
California	113	28,420	412	2.5	21	110	412	1.3
Colorado	61	4,619	105	1.8	21	4,002	105	1.8
Connecticut	21	74	105	0.1	21	74	105	0.1
Delaware	40	7,563	149	0.4	31	7,562	149	0.4
Florida	40	22,286	231	1.0	17	9,059	244	1.8
Georgia	139	16,980	330	0.7	101	16,058	331	0.7
Hawaii	8	(D)	(D)	(D)	7	6	40	0.9
Idaho	173	10,232	192	2.5	77	5,887	205	1.6
Illinois	105	7,087	163	0.5	69	7,029	163	0.5
Indiana	95	1,114	190	0.5	21	963	190	0.6
Iowa	53	406	140	(D)	14	268	125	0.2
Kansas	111	606	150	1.0	56	56	150	1.0
Kentucky	89	294	122	2.1	32	25	122	1.4
Louisiana	21	7	192	0.6	18	4	195	0.3
Maine	64	451	155	0.2	62	(D)	(D)	(D)
Maryland	109	4,880	94	0.4	65	4,520	92	0.3
Massachusetts	144	3,089	174	0.4	144	3,089	174	0.4
Michigan	266	7,998	86	0.4	204	7,980	86	0.4
Minnesota	149	9,195	165	0.5	143	9,194	165	0.5
Mississippi	80	56	190	0.1	71	47	190	0.1
Missouri	192	314	362	0.3	32	134	362	0.2
Montana	54	132	105	2.6	34	122	104	2.8
Nebraska	31	2,628	190	1.3	17	2,600	190	1.3
Nevada	10	600	190	4.0	-	-	-	-
New Hampshire	57	1,081	169	0.1	32	1,061	170	0.1
New Jersey	171	3,695	141	0.6	114	2,616	130	0.6
New Mexico	200	316	156	1.9	-	-	-	-
New York	241	7,317	99	0.4	212	6,979	98	0.4
North Carolina	167	1,859	242	0.2	149	1,517	243	0.2
North Dakota	26	14	195	0.4	19	13	195	0.5
Ohio	134	6,748	162	0.4	86	4,470	164	0.5
Oklahoma	3	285	190	1.0	3	285	190	1.0
Oregon	645	34,173	193	1.3	384	34,036	194	1.3
Pennsylvania	371	2,412	157	0.3	107	(D)	181	(D)
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	122	1,741	56	(D)	51	(D)	(D)	(D)
South Dakota	46	35	84	0.4	29	25	82	0.4
Tennessee	111	797	(D)	0.3	47	(D)	(D)	0.3
Texas	182	189	70	1.3	8	(D)	(D)	(D)
Utah	120	612	60	1.2	16	40	60	3.7
Vermont	62	125	77	0.2	51	(D)	(D)	(D)
Virginia	69	404	190	0.5	26	268	190	0.7
Washington	182	68,424	198	2.3	131	68,166	198	2.3
West Virginia	28	(D)	68	0.3	12	13	69	(D)
Wisconsin	305	57,457	184	0.7	259	57,448	184	0.7
Wyoming	4	(Z)	(D)	0.8	-	-	-	-
Water Resources Regions								
Region 01 New England	307	4,716	170	0.3	277	4,691	170	0.3
Region 02 Mid-Atlantic	877	24,835	126	0.4	464	21,528	123	0.4
Region 03 South Atlantic-Gulf	549	43,462	262	0.8	348	28,633	281	1.0
Region 04 Great Lakes	583	27,713	149	0.6	444	27,143	150	0.6
Region 05 Ohio	315	8,337	162	0.5	137	5,793	165	0.5
Region 06 Tennessee	173	187	176	0.8	120	141	188	(D)
Region 07 Upper Mississippi	542	55,840	179	0.6	388	55,677	179	0.6
Region 08 Lower Mississippi	44	3,498	152	0.8	19	(D)	(D)	(D)
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-
Region 10 Missouri	256	2,987	204	1.2	96	2,775	197	1.2
Region 11 Arkansas-White-Red	176	1,059	155	1.0	70	(D)	(D)	1.0
Region 12 Texas-Gulf	182	(D)	(D)	(D)	8	(D)	(D)	(D)
Region 13 Rio Grande	69	119	155	1.6	-	-	-	-
Region 14 Upper Colorado	310	5,147	103	1.7	134	4,228	102	1.7
Region 15 Lower Colorado	259	1,034	49	0.6	114	570	48	0.3
Region 16 Great Basin	131	1,214	124	2.6	17	42	64	3.6
Region 17 Pacific Northwest	1,027	112,706	196	2.0	609	107,963	197	1.9
Region 18 California	115	28,660	410	2.5	23	350	267	1.8
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	8	(D)	(D)	(D)	7	6	40	0.9

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sweet corn - con.							
	Primary method of distribution - con.							
	Gravity system				Low-flow irrigation (drip, trickle, or micro sprinklers)			
	Farms	Acres	Average yield per acres (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	718	30,624	284	1.8	1,930	30,677	289	1.7
2008 [1]	1,012	49,918	(NA)	2.2	751	19,185	(NA)	2.3
2013 DATA								
Alabama	8	5	109	0.8	40	110	143	0.3
Alaska	-	-	-	-	-	-	-	-
Arizona	157	584	50	0.8	-	-	-	-
Arkansas	36	144	80	1.0	7	2,800	80	1.0
California	50	12,671	413	2.5	42	15,639	411	2.6
Colorado	34	615	108	1.5	6	1	195	0.2
Connecticut	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	9	1	151	1.3
Florida	10	10,419	224	0.4	13	2,808	217	1.1
Georgia	-	-	-	-	38	923	323	0.4
Hawaii	-	-	-	-	1	(D)	(D)	(D)
Idaho	96	4,345	173	3.6	-	-	-	-
Illinois	-	-	-	-	36	58	166	0.2
Indiana	17	4	195	0.2	57	147	193	0.2
Iowa	6	1	75	0.7	33	137	170	(D)
Kansas	-	-	-	-	55	550	150	1.0
Kentucky	-	-	-	-	57	269	122	2.2
Louisiana	3	3	190	1.0	-	-	-	-
Maine	-	-	-	-	2	(D)	(D)	(D)
Maryland	-	-	-	-	44	360	116	0.6
Massachusetts	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	62	18	73	0.2
Minnesota	-	-	-	-	6	1	195	0.1
Mississippi	2	(D)	(D)	(D)	7	(D)	(D)	(D)
Missouri	5	8	300	0.5	155	172	364	0.3
Montana	10	8	99	0.2	10	3	195	1.4
Nebraska	14	28	190	1.3	-	-	-	-
Nevada	10	600	190	4.0	-	-	-	-
New Hampshire	3	3	169	0.1	22	18	107	0.3
New Jersey	3	6	90	1.3	54	1,073	168	0.5
New Mexico	191	312	157	1.9	9	4	50	0.3
New York	-	-	-	-	29	338	108	0.2
North Carolina	12	18	240	0.4	6	324	240	0.2
North Dakota	-	-	-	-	7	1	195	0.1
Ohio	7	77	96	0.7	41	2,201	160	0.2
Oklahoma	-	-	-	-	-	-	-	-
Oregon	5	2	179	1.0	256	136	166	1.5
Pennsylvania	24	148	145	(D)	240	(D)	147	(D)
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	71	(D)	(D)	(D)
South Dakota	-	-	-	-	17	10	88	0.4
Tennessee	5	1	371	0.5	59	(D)	189	0.6
Texas	-	-	-	-	174	(D)	(D)	(D)
Utah	1	(D)	(D)	(D)	103	(D)	(D)	(D)
Vermont	-	-	-	-	11	(D)	(D)	(D)
Virginia	-	-	-	-	43	136	190	0.3
Washington	8	102	203	0.9	43	156	170	2.8
West Virginia	1	(D)	(D)	(D)	15	3	(D)	0.9
Wisconsin	-	-	-	-	46	9	195	0.4
Wyoming	-	-	-	-	4	(Z)	(D)	0.8
Water Resources Regions								
Region 01 New England	3	3	169	0.1	27	22	118	0.7
Region 02 Mid-Atlantic	22	171	135	0.4	391	3,137	152	0.4
Region 03 South Atlantic-Gulf	30	10,442	224	0.4	171	4,387	231	0.8
Region 04 Great Lakes	-	-	-	-	139	570	137	0.3
Region 05 Ohio	30	84	98	0.7	148	2,460	157	0.4
Region 06 Tennessee	-	-	-	-	53	46	138	(D)
Region 07 Upper Mississippi	6	1	75	0.7	148	162	179	0.2
Region 08 Lower Mississippi	10	6	220	0.8	15	(D)	(D)	(D)
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-
Region 10 Missouri	31	50	153	1.0	129	163	347	0.4
Region 11 Arkansas-White-Red	41	152	91	1.0	65	(D)	(D)	1.0
Region 12 Texas-Gulf	-	-	-	-	174	(D)	(D)	(D)
Region 13 Rio Grande	60	116	158	1.7	9	4	50	0.3
Region 14 Upper Colorado	170	918	110	1.4	6	1	195	0.2
Region 15 Lower Colorado	145	464	51	0.9	-	-	-	-
Region 16 Great Basin	11	1,100	131	2.6	103	72	60	1.0
Region 17 Pacific Northwest	109	4,449	174	3.6	309	295	168	2.2
Region 18 California	50	12,671	413	2.5	42	15,639	411	2.6
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	1	(D)	(D)	(D)

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Tomatoes in the open							
					Primary method of distribution			
					Sprinkler system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	10,496	358,985	798	2.4	3,211	37,042	707	2.6
2008 [1]	5,937	305,565	(NA)	2.6	1,872	37,191	(NA)	2.0
2013 DATA								
Alabama	133	1,611	384	0.8	19	10	163	0.4
Alaska	-	-	-	-	-	-	-	-
Arizona	133	67	100	0.1	-	-	-	-
Arkansas	97	1,430	149	0.8	36	4	160	1.0
California	1,036	283,287	882	2.7	74	24,722	791	3.1
Colorado	115	104	510	(D)	66	66	500	1.0
Connecticut	174	139	403	0.2	81	33	578	0.2
Delaware	29	16	703	1.1	-	-	-	-
Florida	171	47,439	559	1.3	31	5,645	590	3.0
Georgia	143	2,093	479	0.8	114	393	929	1.2
Hawaii	46	(D)	(D)	(D)	-	-	-	-
Idaho	25	18	293	1.0	17	10	287	0.1
Illinois	190	217	303	0.7	34	63	425	0.7
Indiana	150	2,993	502	0.4	39	2,901	497	0.4
Iowa	98	35	312	0.2	29	(D)	398	(D)
Kansas	110	70	261	0.2	24	6	700	0.9
Kentucky	256	501	549	1.1	37	12	639	0.8
Louisiana	79	(D)	(D)	0.3	18	2	(D)	0.3
Maine	94	53	145	0.5	26	7	392	0.1
Maryland	177	224	237	0.5	46	49	313	0.5
Massachusetts	243	447	300	0.6	95	161	210	0.4
Michigan	396	1,429	714	0.5	189	793	834	0.7
Minnesota	106	62	379	0.4	69	46	374	0.4
Mississippi	125	122	703	0.3	118	118	703	0.3
Missouri	328	214	299	0.5	44	16	252	0.5
Montana	122	30	120	0.6	97	27	100	0.5
Nebraska	165	54	306	1.3	8	8	300	1.3
Nevada	-	-	-	-	-	-	-	-
New Hampshire	134	256	433	0.2	47	40	367	0.3
New Jersey	315	1,254	268	0.7	110	(D)	(D)	(D)
New Mexico	640	211	282	0.6	141	14	652	0.3
New York	344	816	263	0.7	99	349	283	0.9
North Carolina	397	2,503	123	0.8	53	32	163	0.4
North Dakota	26	6	388	0.3	13	3	300	0.5
Ohio	289	2,358	392	0.3	57	236	347	0.3
Oklahoma	90	69	702	0.4	30	30	700	0.4
Oregon	466	196	231	0.6	164	121	248	0.4
Pennsylvania	892	1,202	462	0.3	66	104	361	0.3
Rhode Island	72	33	685	0.1	18	2	549	0.2
South Carolina	198	2,864	298	0.8	103	12	494	0.3
South Dakota	35	6	273	0.6	26	5	200	0.6
Tennessee	197	2,390	363	0.5	46	60	353	0.3
Texas	563	299	97	1.0	346	185	104	1.0
Utah	146	92	703	2.2	14	8	703	0.5
Vermont	44	9	183	0.2	25	7	191	0.2
Virginia	185	708	383	0.3	73	314	382	0.3
Washington	469	112	338	2.8	368	46	631	3.6
West Virginia	39	26	200	0.2	11	5	44	0.2
Wisconsin	206	85	263	0.7	86	52	183	0.8
Wyoming	8	1	702	0.4	4	1	703	0.4
Water Resources Regions								
Region 01 New England	743	932	357	0.4	282	246	294	0.4
Region 02 Mid-Atlantic	1,639	3,626	344	0.5	339	888	303	0.5
Region 03 South Atlantic-Gulf	1,129	55,621	527	1.3	436	6,251	609	2.8
Region 04 Great Lakes	743	3,749	513	0.4	261	1,155	677	0.8
Region 05 Ohio	722	1,794	389	0.5	121	606	302	0.3
Region 06 Tennessee	216	3,242	282	0.5	47	57	359	0.3
Region 07 Upper Mississippi	580	2,806	509	0.4	182	2,538	529	0.4
Region 08 Lower Mississippi	156	1,712	173	0.7	31	4	416	0.3
Region 09 Souris-Red-Rainy	45	26	(D)	0.4	39	24	350	0.4
Region 10 Missouri	589	284	352	0.8	171	106	420	0.9
Region 11 Arkansas-White-Red	356	(D)	387	(D)	100	38	617	0.5
Region 12 Texas-Gulf	540	293	97	1.0	346	185	104	1.0
Region 13 Rio Grande	587	202	286	0.6	131	13	700	0.3
Region 14 Upper Colorado	32	15	557	0.8	-	-	-	-
Region 15 Lower Colorado	140	74	157	0.1	7	7	703	0.1
Region 16 Great Basin	139	85	703	2.4	7	1	703	2.5
Region 17 Pacific Northwest	1,052	343	257	1.3	631	193	319	1.1
Region 18 California	1,042	283,296	882	2.7	80	24,731	791	3.1
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	46	(D)	(D)	(D)	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Tomatoes in the open - con.							
	Primary method of distribution - con.							
	Gravity system				Low-flow irrigation (drip, trickle, or micro sprinklers)			
	Farms	Acres	Average yield per acres (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	644	62,860	823	2.9	6,641	259,083	805	2.2
2008 [1]	1,050	110,093	(NA)	3.0	3,015	158,281	(NA)	2.4
2013 DATA								
Alabama	16	527	318	0.9	98	1,073	419	0.8
Alaska	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	133	67	100	0.1
Arkansas	-	-	-	-	61	1,427	149	0.8
California	87	59,991	848	3.0	875	198,574	904	2.6
Colorado	20	12	521	0.9	29	26	532	(D)
Connecticut	8	8	50	0.1	85	99	374	0.2
Delaware	-	-	-	-	29	16	703	1.1
Florida	5	1,813	312	0.6	135	39,981	566	1.1
Georgia	7	7	700	2.0	22	1,694	374	0.7
Hawaii	-	-	-	-	46	(D)	(D)	(D)
Idaho	8	8	300	2.1	-	-	-	-
Illinois	-	-	-	-	156	154	253	0.6
Indiana	17	3	700	0.2	94	90	660	0.4
Iowa	12	(D)	231	(D)	57	25	291	0.2
Kansas	63	56	197	0.1	23	9	388	0.8
Kentucky	6	30	546	3.3	213	459	547	1.0
Louisiana	27	45	100	0.3	34	(D)	(D)	0.3
Maine	-	-	-	-	68	46	107	0.5
Maryland	-	-	-	-	131	175	216	0.5
Massachusetts	-	-	-	-	148	286	351	0.7
Michigan	-	-	-	-	207	636	564	0.3
Minnesota	-	-	-	-	37	16	393	0.6
Mississippi	-	-	-	-	7	4	703	0.3
Missouri	10	2	231	1.0	274	196	303	0.4
Montana	5	1	(D)	1.0	20	2	(D)	1.1
Nebraska	-	-	-	-	157	46	307	1.3
Nevada	-	-	-	-	-	-	-	-
New Hampshire	3	3	444	0.1	84	213	445	0.2
New Jersey	2	(D)	(D)	(D)	203	917	274	0.6
New Mexico	181	79	218	0.4	318	118	281	0.8
New York	10	40	233	0.4	235	427	250	0.5
North Carolina	24	13	222	0.9	320	2,458	122	0.8
North Dakota	-	-	-	-	13	4	447	0.1
Ohio	5	2	398	0.4	227	2,120	397	0.3
Oklahoma	-	-	-	-	60	39	703	0.5
Oregon	5	2	317	1.0	297	74	201	0.9
Pennsylvania	37	72	303	0.3	789	1,027	483	0.3
Rhode Island	-	-	-	-	54	31	693	0.1
South Carolina	8	2	700	0.1	87	2,851	297	0.8
South Dakota	-	-	-	-	9	1	700	0.1
Tennessee	18	17	427	0.1	133	2,313	363	0.5
Texas	22	16	200	0.7	195	98	67	0.9
Utah	8	40	703	4.0	124	43	703	1.0
Vermont	-	-	-	-	19	2	157	0.4
Virginia	-	-	-	-	112	395	385	0.2
Washington	18	41	59	2.8	83	24	253	1.3
West Virginia	7	11	393	0.2	21	10	61	0.2
Wisconsin	5	1	156	0.5	115	33	392	0.5
Wyoming	-	-	-	-	4	(Z)	700	0.4
Water Resources Regions								
Region 01 New England	11	11	157	0.1	450	676	383	0.4
Region 02 Mid-Atlantic	44	109	309	0.5	1,256	2,628	360	0.4
Region 03 South Atlantic-Gulf	59	2,361	314	0.7	634	47,010	527	1.1
Region 04 Great Lakes	6	30	199	0.4	476	2,564	442	0.3
Region 05 Ohio	34	37	532	2.7	567	1,152	430	0.6
Region 06 Tennessee	14	18	431	0.2	155	3,167	279	0.5
Region 07 Upper Mississippi	17	2	214	0.4	381	266	325	0.5
Region 08 Lower Mississippi	32	46	103	0.3	93	1,663	174	0.7
Region 09 Souris-Red-Rainy	-	-	-	-	6	2	(D)	0.1
Region 10 Missouri	24	3	306	0.7	394	175	311	0.7
Region 11 Arkansas-White-Red	103	65	205	0.1	153	(D)	417	(D)
Region 12 Texas-Gulf	22	16	200	0.7	172	92	65	1.0
Region 13 Rio Grande	138	70	218	0.4	318	118	281	0.8
Region 14 Upper Colorado	14	11	500	1.0	18	4	700	0.3
Region 15 Lower Colorado	-	-	-	-	133	67	100	0.1
Region 16 Great Basin	8	40	703	4.0	124	43	703	1.0
Region 17 Pacific Northwest	31	51	105	2.7	390	99	215	1.0
Region 18 California	87	59,991	848	3.0	875	198,574	904	2.6
Region 19 Alaska	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	46	(D)	(D)	(D)

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Lettuce and romaine							
					Primary method of distribution			
					Sprinkler system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	5,052	264,154	415	2.6	2,025	98,745	412	3.0
2008 [1]	2,203	255,880	(NA)	2.9	621	78,620	(NA)	2.7
2013 DATA								
Alabama	15	33	153	0.7	-	-	-	-
Alaska	19	25	306	0.2	8	(D)	(D)	0.2
Arizona	161	47,344	297	3.3	4	9,732	152	(D)
Arkansas	12	8	409	2.5	-	-	-	-
California	261	197,716	457	2.5	111	74,705	478	3.0
Colorado	53	6,814	352	2.2	5	5,000	352	(D)
Connecticut	133	70	328	0.4	73	40	342	0.3
Delaware	19	6	352	1.3	-	-	-	-
Florida	125	7,913	175	1.0	21	7,093	150	1.0
Georgia	42	24	309	0.7	14	8	409	1.8
Hawaii	70	175	242	1.4	27	75	279	1.7
Idaho	-	-	-	-	-	-	-	-
Illinois	97	73	455	1.2	23	8	438	1.4
Indiana	31	55	409	0.2	21	52	409	0.2
Iowa	41	7	394	0.3	17	4	397	0.1
Kansas	8	1	409	0.1	8	1	409	0.1
Kentucky	52	15	354	0.8	22	2	324	0.8
Louisiana	35	4	382	0.5	18	2	(D)	0.3
Maine	96	86	159	0.2	19	43	150	0.1
Maryland	78	19	387	0.3	30	6	387	0.2
Massachusetts	159	361	103	0.3	109	288	104	0.3
Michigan	209	90	355	1.1	85	22	364	0.5
Minnesota	76	12	280	0.4	48	9	253	0.4
Mississippi	84	18	364	0.3	77	16	365	0.3
Missouri	65	18	363	0.6	33	9	366	0.7
Montana	44	7	368	2.0	34	6	361	2.1
Nebraska	25	(D)	400	1.0	8	4	409	1.0
Nevada	18	9	409	1.0	-	-	-	-
New Hampshire	104	33	148	0.8	43	21	129	0.5
New Jersey	113	876	428	0.6	51	579	447	0.5
New Mexico	207	254	353	1.3	-	-	-	-
New York	170	531	456	1.6	91	367	455	2.1
North Carolina	195	274	294	0.6	44	81	302	0.1
North Dakota	19	(D)	240	0.2	6	(D)	200	0.5
Ohio	111	193	192	0.3	36	(D)	188	0.3
Oklahoma	50	24	352	0.2	-	-	-	-
Oregon	415	190	145	1.3	169	153	149	1.3
Pennsylvania	241	348	212	0.2	16	5	303	0.7
Rhode Island	57	27	355	0.1	6	1	371	0.1
South Carolina	74	27	224	0.3	16	2	327	0.6
South Dakota	18	3	403	0.6	18	3	403	0.6
Tennessee	72	33	372	0.3	18	2	409	0.4
Texas	354	86	190	1.0	180	35	102	1.0
Utah	21	8	362	0.2	-	-	-	-
Vermont	110	97	276	0.2	59	83	274	0.2
Virginia	103	88	135	0.8	9	2	239	0.3
Washington	493	117	214	2.3	398	90	228	2.7
West Virginia	19	12	388	0.2	3	3	352	0.2
Wisconsin	74	23	225	0.3	43	10	211	0.3
Wyoming	4	1	352	0.5	4	1	352	0.5
Water Resources Regions								
Region 01 New England	584	610	160	0.3	274	418	144	0.3
Region 02 Mid-Atlantic	584	1,488	363	0.5	165	712	438	0.5
Region 03 South Atlantic-Gulf	524	8,289	179	(D)	167	7,194	152	(D)
Region 04 Great Lakes	403	671	365	1.4	163	478	353	1.7
Region 05 Ohio	225	88	310	0.5	64	17	332	0.4
Region 06 Tennessee	84	25	369	0.2	24	3	361	0.3
Region 07 Upper Mississippi	266	161	396	0.7	131	80	369	0.3
Region 08 Lower Mississippi	59	13	369	0.6	24	7	(D)	0.3
Region 09 Souris-Red-Rainy	6	2	200	0.1	-	-	-	-
Region 10 Missouri	152	1,829	353	(D)	80	20	369	0.9
Region 11 Arkansas-White-Red	126	47	359	0.6	16	(D)	383	0.1
Region 12 Texas-Gulf	354	86	190	1.0	180	35	102	1.0
Region 13 Rio Grande	169	5,245	352	2.0	5	5,000	352	2.0
Region 14 Upper Colorado	38	13	379	0.3	-	-	-	-
Region 15 Lower Colorado	161	47,344	297	3.3	4	9,732	152	(D)
Region 16 Great Basin	39	17	386	0.6	-	-	-	-
Region 17 Pacific Northwest	922	310	173	1.7	582	246	181	1.8
Region 18 California	267	197,717	457	2.5	111	74,705	478	3.0
Region 19 Alaska	19	25	306	0.2	8	(D)	(D)	0.2
Region 20 Hawaii	70	175	242	1.4	27	75	279	1.7

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Lettuce and romaine - con.							
	Primary method of distribution - con.							
	Gravity system				Low-flow irrigation (drip, trickle, or micro sprinklers)			
	Farms	Acres	Average yield per acres (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	381	49,360	370	2.7	2,646	116,050	437	2.2
2008 [1]	383	75,176	(NA)	3.8	1,199	102,084	(NA)	2.4
2013 DATA								
Alabama	-	-	-	-	15	33	153	0.7
Alaska	-	-	-	-	11	(D)	(D)	0.3
Arizona	24	37,536	335	(D)	133	76	148	1.6
Arkansas	-	-	-	-	12	8	409	2.5
California	24	9,370	513	2.4	126	113,642	440	2.2
Colorado	17	1,808	352	(D)	31	6	409	0.4
Connecticut	8	8	300	0.1	52	22	315	0.8
Delaware	-	-	-	-	19	6	352	1.3
Florida	10	(D)	(D)	(D)	94	(D)	(D)	(D)
Georgia	-	-	-	-	28	16	261	0.2
Hawaii	-	-	-	-	43	100	214	1.2
Idaho	-	-	-	-	-	-	-	-
Illinois	-	-	-	-	74	66	457	1.2
Indiana	5	3	409	0.2	5	1	409	0.2
Iowa	6	2	375	0.2	18	2	408	0.6
Kansas	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	30	13	359	0.8
Louisiana	-	-	-	-	17	2	(D)	0.7
Maine	-	-	-	-	77	43	167	0.4
Maryland	6	6	380	0.1	42	7	392	0.6
Massachusetts	-	-	-	-	50	73	100	0.5
Michigan	-	-	-	-	124	68	353	1.3
Minnesota	-	-	-	-	28	3	351	0.4
Mississippi	-	-	-	-	7	1	352	0.3
Missouri	-	-	-	-	32	9	360	0.5
Montana	-	-	-	-	10	1	409	1.0
Nebraska	-	-	-	-	17	(D)	379	1.1
Nevada	-	-	-	-	18	9	409	1.0
New Hampshire	-	-	-	-	61	12	181	1.2
New Jersey	-	-	-	-	62	297	390	0.7
New Mexico	180	204	352	1.3	27	50	353	1.7
New York	16	(D)	(D)	(D)	63	(D)	(D)	(D)
North Carolina	25	11	229	0.5	126	183	295	0.9
North Dakota	-	-	-	-	13	3	259	0.1
Ohio	-	-	-	-	75	(D)	208	0.5
Oklahoma	-	-	-	-	50	24	352	0.2
Oregon	5	3	147	1.0	241	35	129	1.2
Pennsylvania	19	3	176	0.5	206	341	211	0.2
Rhode Island	-	-	-	-	51	26	355	0.1
South Carolina	8	2	409	0.1	50	23	200	0.3
South Dakota	-	-	-	-	-	-	-	-
Tennessee	5	1	352	0.5	49	31	370	0.3
Texas	-	-	-	-	174	51	248	1.0
Utah	-	-	-	-	21	8	362	0.2
Vermont	-	-	-	-	51	14	290	0.3
Virginia	-	-	-	-	94	86	133	0.8
Washington	6	1	100	0.5	89	26	170	1.0
West Virginia	7	7	401	0.2	9	2	398	0.3
Wisconsin	10	3	358	0.5	21	10	198	0.3
Wyoming	-	-	-	-	-	-	-	-
Water Resources Regions								
Region 01 New England	8	8	300	0.1	302	184	191	0.5
Region 02 Mid-Atlantic	36	35	421	0.2	383	741	288	0.5
Region 03 South Atlantic-Gulf	43	(D)	(D)	(D)	314	(D)	(D)	1.2
Region 04 Great Lakes	6	90	(D)	0.4	234	103	(D)	1.1
Region 05 Ohio	11	4	360	0.2	150	68	302	0.5
Region 06 Tennessee	-	-	-	-	60	22	370	0.2
Region 07 Upper Mississippi	10	3	358	0.5	125	78	425	1.1
Region 08 Lower Mississippi	5	1	(D)	0.5	30	5	373	1.2
Region 09 Souris-Red-Rainy	-	-	-	-	6	2	200	0.1
Region 10 Missouri	16	1,803	352	(D)	56	6	404	0.7
Region 11 Arkansas-White-Red	43	(D)	352	0.5	67	(D)	360	0.6
Region 12 Texas-Gulf	-	-	-	-	174	51	248	1.0
Region 13 Rio Grande	137	195	352	1.3	27	50	353	1.7
Region 14 Upper Colorado	7	7	352	0.2	31	6	409	0.4
Region 15 Lower Colorado	24	37,536	335	(D)	133	76	148	1.6
Region 16 Great Basin	-	-	-	-	39	17	386	0.6
Region 17 Pacific Northwest	11	4	132	0.8	329	60	146	1.1
Region 18 California	24	9,370	513	2.4	132	113,642	440	2.2
Region 19 Alaska	-	-	-	-	11	(D)	(D)	0.3
Region 20 Hawaii	-	-	-	-	43	100	214	1.2

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Potatoes, excluding sweet potatoes							
					Primary method of distribution			
					Sprinkler system			
	Farms	Irrigated acres harvested	Average yield per acre (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	5,596	903,297	408	1.7	3,385	867,125	414	1.7
2008 [1]	3,727	974,606	(NA)	1.8	2,713	939,463	(NA)	1.8
2013 DATA								
Alabama	35	28	171	0.6	8	4	(D)	0.3
Alaska	32	204	375	0.2	17	199	375	0.2
Arizona	139	3,303	219	1.9	116	(D)	(D)	(D)
Arkansas	42	7	200	1.0	36	4	200	1.0
California	163	63,101	455	1.7	116	56,873	461	1.6
Colorado	119	50,340	374	1.6	75	50,323	374	1.6
Connecticut	73	(D)	200	0.2	36	(D)	208	0.2
Delaware	25	1,070	214	0.2	8	1,060	213	0.2
Florida	53	22,742	203	1.0	20	3,403	263	1.6
Georgia	47	31,217	393	0.5	19	31,192	393	0.5
Hawaii	-	-	-	-	-	-	-	-
Idaho	586	345,444	402	2.0	570	340,357	403	2.0
Illinois	85	5,428	382	0.7	35	5,390	383	0.7
Indiana	44	835	301	1.0	13	819	301	1.0
Iowa	66	618	232	0.8	26	595	231	0.8
Kansas	13	1,271	310	1.7	13	1,271	310	1.7
Kentucky	76	42	187	1.3	31	22	187	1.6
Louisiana	36	56	200	0.3	18	20	200	0.5
Maine	98	3,634	310	0.5	49	3,599	311	0.5
Maryland	113	626	253	0.3	48	601	253	0.2
Massachusetts	100	140	(D)	(D)	77	98	(D)	(D)
Michigan	340	33,727	364	0.6	209	33,627	364	0.6
Minnesota	134	24,604	382	1.4	113	24,589	382	1.4
Mississippi	49	100	200	0.3	42	99	200	0.3
Missouri	96	10,642	300	0.9	17	10,631	300	0.9
Montana	160	3,601	322	1.5	140	3,599	322	1.5
Nebraska	19	(D)	(D)	(D)	11	(D)	(D)	(D)
Nevada	19	(D)	(D)	(D)	1	(D)	(D)	(D)
New Hampshire	55	9	232	0.3	8	2	232	0.5
New Jersey	99	1,147	231	0.3	53	1,068	222	0.3
New Mexico	168	(D)	(D)	(D)	2	(D)	(D)	(D)
New York	165	3,848	332	0.3	111	3,751	332	0.3
North Carolina	77	24	189	0.3	45	16	190	0.2
North Dakota	64	28,234	400	0.8	51	28,230	400	0.8
Ohio	89	883	351	0.7	28	841	350	0.7
Oklahoma	110	480	261	(D)	60	459	256	(D)
Oregon	482	35,502	344	2.1	238	35,293	344	2.1
Pennsylvania	324	1,104	303	0.4	58	808	327	0.4
Rhode Island	30	(D)	(D)	(D)	5	(D)	(D)	(D)
South Carolina	28	38	116	0.3	16	5	160	0.8
South Dakota	52	12	338	0.5	35	10	324	0.6
Tennessee	38	18	172	0.5	2	(D)	(D)	(D)
Texas	26	9,064	458	1.7	11	9,062	458	1.7
Utah	24	821	360	1.5	3	810	360	1.5
Vermont	66	66	227	0.3	53	63	227	0.3
Virginia	71	2,070	296	0.5	21	2,039	297	0.5
Washington	592	136,150	512	2.4	508	135,156	513	2.4
West Virginia	27	13	175	0.5	11	(D)	187	(D)
Wisconsin	243	65,708	410	1.0	202	65,696	410	1.0
Wyoming	4	(Z)	337	0.4	-	-	-	-
Water Resources Regions								
Region 01 New England	377	4,057	299	0.5	193	3,939	301	0.5
Region 02 Mid-Atlantic	680	9,230	291	0.3	263	8,773	292	0.3
Region 03 South Atlantic-Gulf	258	54,131	312	0.7	134	34,710	380	0.6
Region 04 Great Lakes	546	45,802	372	0.7	332	45,594	372	0.7
Region 05 Ohio	241	1,551	323	0.8	74	1,492	326	0.8
Region 06 Tennessee	55	24	177	0.5	19	4	178	0.5
Region 07 Upper Mississippi	445	76,604	398	1.1	297	76,517	398	1.1
Region 08 Lower Mississippi	47	10,545	300	0.9	10	10,503	300	0.9
Region 09 Souris-Red-Rainy	43	22,434	399	0.6	37	22,432	399	0.6
Region 10 Missouri	268	30,887	391	1.2	147	30,864	391	1.2
Region 11 Arkansas-White-Red	201	9,903	445	1.7	126	9,879	446	1.7
Region 12 Texas-Gulf	9	(D)	(D)	(D)	9	(D)	(D)	(D)
Region 13 Rio Grande	236	42,095	378	1.5	70	41,992	378	1.5
Region 14 Upper Colorado	161	(D)	(D)	(D)	116	(D)	(D)	(D)
Region 15 Lower Colorado	25	3,269	219	1.9	2	(D)	(D)	(D)
Region 16 Great Basin	64	19,111	379	1.3	32	19,094	379	1.3
Region 17 Pacific Northwest	1,719	496,831	429	2.1	1,365	490,541	431	2.1
Region 18 California	189	69,551	445	1.7	142	63,323	449	1.6
Region 19 Alaska	32	204	375	0.2	17	199	375	0.2
Region 20 Hawaii	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Potatoes, excluding sweet potatoes - con.							
	Primary method of distribution - con.							
	Gravity system				Low-flow irrigation (drip, trickle, or micro sprinklers)			
	Farms	Acres	Average yield per acres (cwt)	Average acre-feet applied per acre	Farms	Acres	Average yield per acre (cwt)	Average acre-feet applied per acre
United States 2013	296	26,881	244	1.5	1,915	9,291	300	1.5
2008 [1]	486	31,509	(NA)	1.5	528	3,634	(NA)	1.5
2013 DATA								
Alabama	8	5	(D)	0.7	19	18	191	0.6
Alaska	-	-	-	-	15	5	333	0.4
Arizona	4	3,030	217	1.8	19	(D)	(D)	(D)
Arkansas	-	-	-	-	6	3	200	1.0
California	7	2,610	467	4.3	40	3,618	351	2.0
Colorado	13	8	337	0.5	31	9	213	1.3
Connecticut	-	-	-	-	37	24	194	0.2
Delaware	-	-	-	-	17	10	232	0.3
Florida	26	16,854	197	0.9	7	2,485	160	1.4
Georgia	-	-	-	-	28	25	169	0.2
Hawaii	-	-	-	-	-	-	-	-
Idaho	7	3,287	280	1.8	9	1,800	409	1.3
Illinois	-	-	-	-	50	38	240	0.6
Indiana	5	3	301	0.2	26	14	301	0.8
Iowa	6	3	301	1.3	34	20	270	1.0
Kansas	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	45	20	187	1.0
Louisiana	-	-	-	-	18	36	200	0.2
Maine	10	4	232	1.0	39	32	215	0.4
Maryland	6	6	232	0.1	59	19	263	0.6
Massachusetts	8	20	100	0.3	15	22	232	0.9
Michigan	-	-	-	-	131	100	368	0.6
Minnesota	-	-	-	-	21	15	366	0.3
Mississippi	-	-	-	-	7	1	200	0.2
Missouri	-	-	-	-	79	12	305	0.2
Montana	-	-	-	-	20	3	337	0.5
Nebraska	-	-	-	-	8	1	392	(D)
Nevada	-	-	-	-	18	9	444	2.8
New Hampshire	-	-	-	-	47	7	232	0.3
New Jersey	-	-	-	-	46	79	343	0.5
New Mexico	138	(D)	342	(D)	28	29	337	2.5
New York	6	3	389	0.5	48	93	316	0.6
North Carolina	12	4	187	0.2	20	5	187	0.5
North Dakota	-	-	-	-	13	5	392	0.4
Ohio	-	-	-	-	61	43	370	0.4
Oklahoma	-	-	-	-	50	21	360	0.2
Oregon	8	131	488	4.0	236	78	122	1.3
Pennsylvania	13	5	218	0.1	253	291	237	0.4
Rhode Island	-	-	-	-	25	8	416	0.1
South Carolina	-	-	-	-	12	33	109	0.2
South Dakota	-	-	-	-	17	3	392	0.2
Tennessee	-	-	-	-	36	(D)	(D)	(D)
Texas	-	-	-	-	15	2	360	0.2
Utah	-	-	-	-	21	11	337	0.9
Vermont	-	-	-	-	13	3	232	0.2
Virginia	-	-	-	-	50	30	188	0.3
Washington	18	833	428	2.5	66	161	402	0.6
West Virginia	1	(D)	(D)	(D)	15	4	(D)	0.8
Wisconsin	-	-	-	-	41	12	253	0.4
Wyoming	-	-	-	-	4	(Z)	337	0.4
Water Resources Regions								
Region 01 New England	18	24	120	0.4	166	94	232	0.4
Region 02 Mid-Atlantic	20	16	251	0.2	397	441	262	0.4
Region 03 South Atlantic-Gulf	46	16,863	197	0.9	78	2,558	160	1.4
Region 04 Great Lakes	-	-	-	-	214	208	335	0.6
Region 05 Ohio	11	4	274	0.2	156	55	243	1.1
Region 06 Tennessee	-	-	-	-	36	20	176	0.5
Region 07 Upper Mississippi	6	3	301	1.3	142	84	288	0.6
Region 08 Lower Mississippi	-	-	-	-	37	42	199	0.3
Region 09 Souris-Red-Rainy	-	-	-	-	6	2	392	0.8
Region 10 Missouri	6	1	337	0.2	115	23	302	0.6
Region 11 Arkansas-White-Red	-	-	-	-	75	25	358	0.2
Region 12 Texas-Gulf	-	-	-	-	-	-	-	-
Region 13 Rio Grande	138	74	342	1.0	28	29	337	2.5
Region 14 Upper Colorado	7	7	337	0.5	38	(D)	(D)	(D)
Region 15 Lower Colorado	4	3,030	217	1.8	19	(D)	(D)	(D)
Region 16 Great Basin	-	-	-	-	32	17	394	1.8
Region 17 Pacific Northwest	33	4,250	316	2.0	321	2,039	397	1.2
Region 18 California	7	2,610	467	4.3	40	3,618	351	2.0
Region 19 Alaska	-	-	-	-	15	5	333	0.4
Region 20 Hawaii	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All berries											
				Primary method of distribution								
				Sprinkler system			Gravity system			Low-flow irrigation (drip, trickle, or micro sprinklers)		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	12,763	227,651	1.3	5,749	113,617	1.7	720	6,253	1.6	6,294	107,781	0.8
2008 [1]	9,021	222,857	2.2	4,510	108,732	1.5	502	10,221	2.8	4,009	103,904	2.9
2013 DATA												
Alabama	187	519	0.4	37	104	0.5	11	31	0.1	139	384	0.4
Alaska	12	5	1.0	8	5	1.0	-	-	-	4	(Z)	1.0
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	86	587	2.5	-	-	-	10	400	3.5	76	187	0.2
California	1,280	33,443	0.6	495	1,040	3.4	8	7	0.1	777	32,396	0.6
Colorado	214	102	3.3	183	92	3.5	13	8	0.9	18	2	1.2
Connecticut	89	234	2.0	44	131	1.5	6	42	1.8	39	61	3.3
Delaware	22	37	1.3	3	20	1.3	-	-	-	19	17	1.3
Florida	578	12,478	2.0	312	7,193	1.8	9	1,107	1.9	257	4,178	2.4
Georgia	582	20,805	0.6	209	5,355	1.4	7	7	0.5	366	15,443	0.3
Hawaii	17	54	2.3	9	37	1.8	-	-	-	8	17	3.3
Idaho	16	5	1.8	8	1	0.1	8	4	2.1	-	-	-
Illinois	104	322	1.0	46	46	4.3	-	-	-	58	276	0.4
Indiana	140	360	0.3	32	163	0.4	17	2	0.1	91	195	0.3
Iowa	108	411	0.7	40	214	0.9	6	60	0.2	62	137	0.7
Kansas	85	93	0.8	23	24	2.0	55	55	0.1	7	14	1.5
Kentucky	196	284	0.3	54	29	0.4	30	27	0.4	112	229	0.3
Louisiana	62	147	0.1	-	-	-	27	18	0.1	35	129	0.1
Maine	108	7,401	0.5	67	7,303	0.5	-	-	-	41	97	0.2
Maryland	137	387	0.7	29	30	0.3	9	36	0.1	99	321	0.8
Massachusetts	593	14,973	2.1	415	13,067	2.2	20	1,473	1.5	158	433	1.5
Michigan	768	24,668	0.9	505	21,171	0.8	6	6	0.1	257	3,491	1.2
Minnesota	194	455	0.4	126	290	0.3	2	(D)	(D)	66	(D)	(D)
Mississippi	160	3,584	0.6	78	1,869	0.3	35	350	0.1	47	1,365	1.1
Missouri	161	209	0.2	42	4	0.5	-	-	-	119	205	0.2
Montana	269	62	0.7	259	61	0.6	-	-	-	10	1	1.0
Nebraska	8	1	1.0	-	-	-	-	-	-	8	1	1.0
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	112	232	0.5	15	23	0.4	-	-	-	97	209	0.5
New Jersey	242	12,774	1.1	125	7,544	1.4	1	(D)	(D)	116	(D)	(D)
New Mexico	455	160	0.5	132	71	0.5	305	87	0.5	18	2	0.4
New York	252	1,255	0.4	142	635	0.4	6	12	0.5	104	608	0.4
North Carolina	392	4,570	0.4	85	1,483	0.3	13	13	0.5	294	3,074	0.5
North Dakota	7	4	2.0	7	4	2.0	-	-	-	-	-	-
Ohio	264	633	0.4	69	211	0.6	9	2	2.0	186	420	0.3
Oklahoma	99	108	1.3	29	(D)	1.7	-	-	-	70	(D)	1.3
Oregon	1,522	26,800	1.5	622	12,970	1.9	-	-	-	900	13,831	1.0
Pennsylvania	365	675	0.5	97	301	0.4	13	3	0.5	255	371	0.5
Rhode Island	45	207	0.3	34	164	0.2	4	20	1.0	7	23	0.2
South Carolina	162	676	0.6	70	259	0.7	-	-	-	92	417	0.6
South Dakota	46	70	0.4	37	69	0.4	-	-	-	9	1	0.1
Tennessee	94	270	0.6	15	35	0.6	12	30	0.3	67	205	0.6
Texas	196	1,172	0.5	14	4	(D)	-	-	-	182	1,168	(D)
Utah	185	358	2.0	113	127	2.5	-	-	-	72	231	1.8
Vermont	107	305	0.8	41	141	0.9	17	47	0.8	49	118	0.8
Virginia	180	464	1.3	24	72	0.6	7	1	0.1	149	391	1.4
Washington	1,125	24,301	1.4	597	3,874	2.8	12	70	1.9	516	20,357	1.2
West Virginia	42	49	0.2	8	(D)	(D)	1	(D)	(D)	33	32	0.1
Wisconsin	674	30,680	2.4	432	27,108	2.5	41	2,176	1.7	201	1,395	0.5
Wyoming	21	263	3.0	17	261	3.0	-	-	-	4	2	1.7
Water Resources Regions												
Region 01 New England	971	23,144	1.6	588	20,755	1.6	33	1,538	1.5	350	850	1.2
Region 02 Mid-Atlantic	981	14,823	1.0	309	8,196	1.3	40	137	(D)	632	6,491	(D)
Region 03 South Atlantic-Gulf	2,007	42,515	1.0	759	16,155	1.4	75	1,508	1.4	1,173	24,852	0.7
Region 04 Great Lakes	1,267	27,093	0.8	737	22,703	0.8	17	44	0.7	513	4,346	1.1
Region 05 Ohio	623	1,426	0.5	153	477	0.7	63	59	0.3	407	891	0.4
Region 06 Tennessee	139	317	0.6	51	117	0.5	-	-	-	88	201	0.6
Region 07 Upper Mississippi	842	30,191	2.4	536	26,521	2.5	43	2,256	1.7	263	1,414	0.4
Region 08 Lower Mississippi	104	328	0.1	1	(D)	(D)	14	(D)	(D)	89	310	0.1
Region 09 Souris-Red-Rainy	25	50	0.3	20	40	0.3	-	-	-	5	10	0.1
Region 10 Missouri	361	576	1.7	211	357	2.4	12	61	(D)	138	159	(D)
Region 11 Arkansas-White-Red	313	751	2.2	37	19	2.0	126	473	3.0	150	259	0.7
Region 12 Texas-Gulf	188	1,168	0.5	14	4	0.5	-	-	-	174	1,164	0.5
Region 13 Rio Grande	411	146	0.5	131	(D)	(D)	262	(D)	0.5	18	2	(D)
Region 14 Upper Colorado	203	105	3.1	184	97	3.3	7	7	1.0	12	2	0.4
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	185	358	2.0	113	127	2.5	-	-	-	72	231	1.8
Region 17 Pacific Northwest	2,828	51,156	1.5	1,393	16,895	2.1	20	74	1.9	1,415	34,188	1.1
Region 18 California	1,286	33,444	0.6	495	1,040	3.4	8	7	0.1	783	32,396	0.6
Region 19 Alaska	12	5	1.0	8	5	1.0	-	-	-	4	(Z)	1.0
Region 20 Hawaii	17	54	2.3	9	37	1.8	-	-	-	8	17	3.3

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in orchards											
				Primary method of distribution								
				Sprinkler system			Gravity system			Low-flow irrigation (drip, trickle, or micro sprinklers)		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	52,018	3,662,131	2.4	12,659	505,106	2.4	8,841	513,650	2.8	30,518	2,643,376	2.3
2008 [1]	57,184	3,733,339	2.4	18,487	675,139	2.4	10,044	579,845	2.9	28,653	2,478,355	2.3
2013 DATA												
Alabama	172	2,701	(D)	39	207	(D)	9	1,683	0.5	124	811	(D)
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,042	24,800	3.6	282	978	3.5	468	17,254	3.6	292	6,569	3.7
Arkansas	71	1,498	2.0	4	20	0.3	36	720	3.0	31	758	1.0
California	31,859	2,576,601	2.7	6,204	289,629	2.8	5,272	396,150	2.8	20,383	1,890,822	2.7
Colorado	870	2,184	0.5	575	1,731	0.4	75	78	2.1	220	375	0.4
Connecticut	39	97	0.8	15	12	1.0	-	-	-	24	85	0.8
Delaware	19	321	0.2	1	(D)	(D)	-	-	-	18	(D)	(D)
Florida	3,132	491,029	1.0	658	33,636	0.8	24	25,155	0.7	2,450	432,237	1.0
Georgia	534	100,609	0.6	196	26,734	0.5	4	960	0.6	334	72,915	0.6
Hawaii	688	4,720	1.3	172	1,689	1.0	56	210	0.4	460	2,821	1.6
Idaho	333	7,364	1.9	307	7,346	1.9	17	13	1.0	9	5	0.2
Illinois	41	104	0.3	23	7	0.9	-	-	-	18	97	0.3
Indiana	53	382	0.4	23	76	0.1	-	-	-	30	306	0.5
Iowa	57	267	0.6	16	133	1.0	12	64	0.1	29	70	0.4
Kansas	200	1,809	0.6	72	1,685	0.6	55	(D)	1.1	73	(D)	0.8
Kentucky	108	124	0.4	50	(D)	0.3	7	1	0.1	51	(D)	0.6
Louisiana	142	1,197	0.8	17	340	1.7	45	495	0.2	80	362	0.6
Maine	59	144	1.1	19	(D)	0.6	-	-	-	40	(D)	1.3
Maryland	80	1,975	0.8	32	207	2.3	3	30	0.3	45	1,738	0.6
Massachusetts	54	1,045	0.4	28	94	0.4	-	-	-	26	951	0.4
Michigan	416	18,525	0.5	55	2,358	0.3	22	44	0.3	339	16,124	0.5
Minnesota	93	147	0.3	62	30	0.3	-	-	-	31	116	0.4
Mississippi	22	1,204	0.5	-	-	-	-	-	-	22	1,204	0.5
Missouri	177	363	0.6	6	2	0.1	42	151	1.0	129	210	0.4
Montana	436	896	0.5	172	354	0.5	10	35	0.7	254	507	0.4
Nebraska	16	33	0.2	-	-	-	-	-	-	16	33	0.2
Nevada	51	1,203	3.7	3	6	1.0	-	-	-	48	1,197	3.7
New Hampshire	57	614	0.3	13	17	0.1	-	-	-	44	597	0.3
New Jersey	107	2,671	0.6	29	185	0.3	-	-	-	78	2,486	0.6
New Mexico	2,549	45,419	3.4	115	5,111	2.2	1,900	33,127	3.8	534	7,180	2.1
New York	214	6,938	0.7	38	1,502	0.4	10	163	0.1	166	5,274	0.8
North Carolina	170	1,205	0.2	64	998	0.2	6	1	0.6	100	206	0.2
North Dakota	7	21	0.1	-	-	-	-	-	-	7	21	0.1
Ohio	109	430	0.7	20	177	1.1	9	18	0.1	80	235	0.4
Oklahoma	252	2,100	1.0	41	326	1.3	-	-	-	211	1,774	1.0
Oregon	1,546	42,698	1.3	856	25,884	1.1	5	3	0.3	685	16,811	1.6
Pennsylvania	162	2,761	0.3	27	185	0.3	6	3	0.3	129	2,573	0.3
Rhode Island	17	60	0.2	3	3	(D)	4	(D)	(D)	10	(D)	(D)
South Carolina	73	10,453	(D)	46	204	1.7	-	-	-	27	10,249	(D)
South Dakota	11	21	1.3	11	21	1.3	-	-	-	-	-	-
Tennessee	86	619	0.8	28	340	0.9	5	1	0.5	53	279	0.6
Texas	2,048	48,095	2.7	357	1,370	0.8	483	35,282	3.4	1,208	11,442	0.9
Utah	619	6,347	1.9	326	3,009	2.1	212	1,040	1.3	81	2,299	1.9
Vermont	9	132	0.2	2	(D)	(D)	6	(D)	(D)	1	(D)	(D)
Virginia	96	1,142	1.0	18	43	0.4	7	1	0.1	71	1,098	1.1
Washington	2,984	248,175	2.6	1,569	97,733	3.1	31	877	1.8	1,384	149,564	2.3
West Virginia	21	35	0.7	5	5	0.1	-	-	-	16	30	0.8
Wisconsin	113	855	0.5	56	353	0.1	-	-	-	57	502	0.8
Wyoming	4	1	0.4	4	1	0.4	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	262	1,979	0.5	78	(D)	0.5	4	(D)	0.6	180	1,806	0.5
Region 02 Mid-Atlantic	537	13,215	0.6	125	1,720	0.6	28	62	0.3	384	11,433	0.7
Region 03 South Atlantic-Gulf	4,052	603,260	0.9	965	59,050	0.6	42	27,720	0.7	3,045	516,490	1.0
Region 04 Great Lakes	612	21,457	0.5	108	3,364	0.3	26	204	0.1	478	17,888	0.5
Region 05 Ohio	256	1,219	0.5	87	425	0.7	16	19	0.1	153	776	0.4
Region 06 Tennessee	106	3,092	1.0	67	2,779	1.0	1	(D)	(D)	38	(D)	(D)
Region 07 Upper Mississippi	358	1,321	0.6	126	331	0.5	43	152	1.0	189	838	0.6
Region 08 Lower Mississippi	203	3,650	1.2	27	380	1.5	68	1,207	1.9	108	2,063	0.7
Region 09 Souris-Red-Rainy	7	21	0.1	-	-	-	-	-	-	7	21	0.1
Region 10 Missouri	435	2,235	0.6	291	2,074	0.6	16	(D)	(D)	128	(D)	(D)
Region 11 Arkansas-White-Red	612	2,921	1.1	66	(D)	1.2	116	(D)	1.1	430	2,487	1.0
Region 12 Texas-Gulf	1,740	33,798	2.1	352	1,120	0.6	354	21,575	2.8	1,034	11,102	0.9
Region 13 Rio Grande	2,563	58,003	3.6	119	4,995	2.0	1,910	45,828	4.0	534	7,180	2.1
Region 14 Upper Colorado	708	3,060	1.3	367	1,739	1.3	127	947	1.7	214	374	0.4
Region 15 Lower Colorado	1,280	26,296	3.6	384	1,692	2.5	594	17,476	3.6	302	7,129	3.8
Region 16 Great Basin	456	6,174	2.1	227	2,301	2.5	110	938	1.0	119	2,936	2.1
Region 17 Pacific Northwest	5,275	298,690	2.4	2,894	131,305	2.6	58	918	1.8	2,323	166,467	2.2
Region 18 California	31,868	2,577,022	2.7	6,204	289,629	2.8	5,272	396,150	2.8	20,392	1,891,243	2.7
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	688	4,720	1.3	172	1,689	1.0	56	210	0.4	460	2,821	1.6

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other crops (see text)								
				Primary method of distribution					
				Pressure system			Gravity system		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	26,309	2,320,822	1.7	23,709	1,619,163	1.7	2,600	701,659	1.9
2008 [1]	6,761	1,487,387	1.8	4,964	886,595	1.7	1,797	600,792	1.9
2013 DATA									
Alabama	361	18,569	0.7	357	18,561	0.7	4	8	1.3
Alaska	37	132	0.3	35	(D)	(D)	2	(D)	(D)
Arizona	447	21,381	4.2	219	9,678	3.4	228	11,703	4.8
Arkansas	226	23,875	2.5	179	21,005	2.8	47	2,870	0.5
California	3,819	249,561	2.7	3,548	178,064	2.6	271	71,497	2.8
Colorado	1,070	59,113	1.5	663	48,996	1.5	407	10,117	1.4
Connecticut	273	2,817	1.2	273	2,817	1.2	-	-	-
Delaware	36	2,209	0.4	27	2,200	0.4	9	9	0.5
Florida	3,058	454,826	1.5	2,974	81,246	1.0	84	373,580	1.6
Georgia	456	25,058	0.6	454	(D)	(D)	2	(D)	(D)
Hawaii	700	28,431	4.1	608	28,025	4.2	92	406	1.4
Idaho	939	258,292	2.3	666	208,181	2.2	273	50,111	2.8
Illinois	346	23,969	1.0	346	23,969	1.0	-	-	-
Indiana	271	16,055	0.4	271	16,055	0.4	-	-	-
Iowa	127	2,983	0.7	127	2,983	0.7	-	-	-
Kansas	269	54,060	1.0	260	(D)	(D)	9	(D)	(D)
Kentucky	277	3,454	0.8	272	3,444	0.8	5	10	1.0
Louisiana	381	15,960	1.2	325	8,688	1.0	56	7,272	1.4
Maine	161	1,209	0.2	161	1,209	0.2	-	-	-
Maryland	181	9,457	0.5	181	9,457	0.5	-	-	-
Massachusetts	315	2,421	0.7	300	2,406	0.7	15	15	0.5
Michigan	710	32,235	0.6	698	32,199	0.6	12	36	0.1
Minnesota	244	30,904	1.1	219	11,458	0.9	25	19,446	1.2
Mississippi	261	6,002	1.4	260	(D)	(D)	1	(D)	(D)
Missouri	171	10,625	0.9	160	5,861	1.1	11	4,764	0.8
Montana	789	110,623	1.5	417	55,072	1.2	372	55,551	1.8
Nebraska	498	108,355	1.1	484	106,255	1.1	14	2,100	1.5
Nevada	42	8,081	1.8	37	5,790	2.4	5	2,291	0.4
New Hampshire	167	733	0.4	159	717	0.4	8	16	1.0
New Jersey	531	16,987	0.7	529	(D)	(D)	2	(D)	(D)
New Mexico	322	6,885	2.7	67	3,161	1.9	255	3,724	3.3
New York	601	8,067	0.7	595	8,061	0.7	6	6	0.5
North Carolina	753	22,087	0.5	737	22,026	0.5	16	61	2.5
North Dakota	90	18,074	0.8	55	8,235	0.7	35	9,839	0.9
Ohio	364	8,222	1.0	360	8,214	1.0	4	8	1.0
Oklahoma	174	28,284	1.1	174	28,284	1.1	-	-	-
Oregon	1,599	191,890	1.7	1,542	179,988	1.6	57	11,902	3.1
Pennsylvania	707	2,988	0.6	700	2,981	0.6	7	7	1.0
Rhode Island	119	2,230	0.4	119	2,230	0.4	-	-	-
South Carolina	283	21,683	0.6	275	21,675	0.6	8	8	0.1
South Dakota	66	9,550	1.3	63	9,190	1.4	3	360	0.4
Tennessee	245	7,682	0.7	240	7,677	0.7	5	5	0.1
Texas	1,198	147,889	1.6	1,098	121,510	1.5	100	26,379	2.0
Utah	279	5,903	2.5	256	5,201	2.8	23	702	1.0
Vermont	150	326	0.4	147	320	0.4	3	6	0.3
Virginia	552	10,535	0.9	552	10,535	0.9	-	-	-
Washington	963	173,493	2.1	918	163,512	2.2	45	9,981	1.5
West Virginia	87	421	0.5	87	421	0.5	-	-	-
Wisconsin	411	10,082	0.6	409	(D)	(D)	2	(D)	(D)
Wyoming	183	46,154	2.4	106	21,562	2.3	77	24,592	2.4
Water Resources Regions									
Region 01 New England	1,079	9,549	0.7	1,056	9,518	0.7	23	31	0.8
Region 02 Mid-Atlantic	2,169	46,528	0.7	2,145	46,466	0.7	24	62	0.4
Region 03 South Atlantic-Gulf	5,100	544,917	1.3	4,986	170,690	0.8	114	374,227	1.6
Region 04 Great Lakes	1,311	38,967	0.7	1,296	38,925	0.7	15	42	0.1
Region 05 Ohio	1,089	25,434	0.6	1,080	25,416	(D)	9	18	(D)
Region 06 Tennessee	210	5,333	0.5	210	5,333	0.5	-	-	-
Region 07 Upper Mississippi	982	53,238	0.9	968	47,304	0.9	14	5,934	1.0
Region 08 Lower Mississippi	571	31,481	1.1	451	15,973	1.1	120	15,508	1.1
Region 09 Souris-Red-Rainy	57	17,341	1.1	40	2,375	0.4	17	14,966	1.2
Region 10 Missouri	2,328	334,213	1.3	1,698	238,469	1.2	630	95,744	1.7
Region 11 Arkansas-White-Red	629	108,775	1.5	584	108,195	1.5	45	580	0.7
Region 12 Texas-Gulf	1,153	133,758	1.6	1,053	107,379	1.5	100	26,379	2.0
Region 13 Rio Grande	168	20,500	1.8	99	18,997	1.7	69	1,503	3.2
Region 14 Upper Colorado	495	3,948	2.7	101	(D)	2.4	394	(D)	3.1
Region 15 Lower Colorado	468	23,355	4.1	227	9,702	3.4	241	13,653	4.7
Region 16 Great Basin	346	15,451	2.3	318	12,458	2.7	28	2,993	0.6
Region 17 Pacific Northwest	3,609	629,945	2.1	3,217	553,701	2.0	392	76,244	2.8
Region 18 California	3,808	249,526	2.7	3,537	178,029	2.6	271	71,497	2.8
Region 19 Alaska	37	132	0.3	35	(D)	(D)	2	(D)	(D)
Region 20 Hawaii	700	28,431	4.1	608	28,025	4.2	92	406	1.4

See footnote(s) at end of table.

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Table 36. **Estimated Quantity of Water Applied and Primary Method of Distribution by Selected Crops Harvested in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Pastureland, all types								
				Primary method of distribution					
				Pressure system			Gravity system		
	Farms	Irrigated acres harvested	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre	Farms	Acres	Average acre-feet applied per acre
United States 2013	42,733	3,034,409	1.6	19,164	860,538	1.4	23,569	2,173,871	1.7
2008 [1]	49,582	3,611,216	1.6	25,912	1,166,593	1.4	23,670	2,444,623	1.7
2013 DATA									
Alabama	46	587	0.7	34	(D)	0.7	12	(D)	0.6
Alaska	-	-	-	-	-	-	-	-	-
Arizona	1,365	34,897	3.5	363	8,496	2.9	1,002	26,401	3.8
Arkansas	87	12,795	0.2	8	400	0.1	79	12,395	0.2
California	3,786	433,570	2.0	1,096	50,264	1.7	2,690	383,306	2.0
Colorado	3,854	296,345	1.8	952	47,609	0.8	2,902	248,736	2.0
Connecticut	7	14	0.3	7	14	0.3	-	-	-
Delaware	5	165	0.3	5	165	0.3	-	-	-
Florida	497	99,618	1.0	403	60,190	0.9	94	39,428	1.2
Georgia	226	23,690	0.5	226	23,690	0.5	-	-	-
Hawaii	91	5,479	0.8	70	1,525	1.0	21	3,954	0.7
Idaho	8,243	277,328	1.5	3,671	129,656	1.3	4,572	147,672	1.6
Illinois	17	690	2.0	17	690	2.0	-	-	-
Indiana	26	1,017	0.6	26	1,017	0.6	-	-	-
Iowa	11	250	0.8	11	250	0.8	-	-	-
Kansas	28	4,251	1.5	28	4,251	1.5	-	-	-
Kentucky	23	336	1.1	16	266	1.1	7	70	1.3
Louisiana	79	5,411	0.6	34	1,586	0.2	45	3,825	0.8
Maine	-	-	-	-	-	-	-	-	-
Maryland	16	142	0.2	16	142	0.2	-	-	-
Massachusetts	7	7	0.1	7	7	0.1	-	-	-
Michigan	2	(D)	(D)	2	(D)	(D)	-	-	-
Minnesota	32	3,739	0.4	31	(D)	(D)	1	(D)	(D)
Mississippi	47	1,868	0.4	47	1,868	0.4	-	-	-
Missouri	86	2,430	0.5	49	2,060	0.5	37	370	0.8
Montana	2,930	384,184	1.1	560	58,423	1.2	2,370	325,761	1.1
Nebraska	402	38,380	1.0	209	24,294	1.1	193	14,086	0.8
Nevada	877	190,179	2.3	78	4,056	3.0	799	186,123	2.3
New Hampshire	1	(D)	(D)	-	-	-	1	(D)	(D)
New Jersey	37	516	0.8	37	516	0.8	-	-	-
New Mexico	2,174	89,871	1.4	359	29,987	1.9	1,815	59,884	1.1
New York	8	232	0.3	8	232	0.3	-	-	-
North Carolina	142	9,432	0.3	136	8,832	0.3	6	600	1.0
North Dakota	13	695	0.3	13	695	0.3	-	-	-
Ohio	26	496	0.9	22	436	1.0	4	60	0.8
Oklahoma	240	37,870	0.9	232	35,470	0.9	8	2,400	1.2
Oregon	4,855	277,547	1.8	2,928	99,588	1.6	1,927	177,959	1.9
Pennsylvania	10	230	0.4	2	(D)	(D)	8	(D)	(D)
Rhode Island	10	68	0.4	10	68	0.4	-	-	-
South Carolina	39	3,168	0.8	26	2,283	(D)	13	885	(D)
South Dakota	12	1,869	0.8	7	520	0.8	5	1,349	0.8
Tennessee	24	359	0.5	16	330	0.5	8	29	1.1
Texas	1,873	133,289	1.2	1,176	87,881	1.3	697	45,408	1.1
Utah	4,471	242,890	1.9	2,441	76,142	2.1	2,030	166,748	1.8
Vermont	-	-	-	-	-	-	-	-	-
Virginia	19	633	0.8	19	633	0.8	-	-	-
Washington	4,003	73,246	2.2	3,394	48,010	2.0	609	25,236	2.8
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	11	249	0.6	11	249	0.6	-	-	-
Wyoming	1,975	344,215	1.2	361	45,015	1.1	1,614	299,200	1.2
Water Resources Regions									
Region 01 New England	25	(D)	(D)	24	89	0.4	1	(D)	(D)
Region 02 Mid-Atlantic	80	1,639	0.6	74	1,609	0.6	6	30	0.4
Region 03 South Atlantic-Gulf	973	137,803	0.9	852	96,720	0.7	121	41,083	1.2
Region 04 Great Lakes	24	793	0.5	24	793	0.5	-	-	-
Region 05 Ohio	63	(D)	0.8	50	1,258	0.8	13	(D)	0.7
Region 06 Tennessee	39	416	(D)	27	323	(D)	12	93	(D)
Region 07 Upper Mississippi	70	3,328	0.8	70	3,328	0.8	-	-	-
Region 08 Lower Mississippi	125	4,736	0.7	48	2,076	0.3	77	2,660	0.9
Region 09 Souris-Red-Rainy	4	(D)	0.4	3	180	(D)	1	(D)	(D)
Region 10 Missouri	4,144	600,508	1.2	1,121	98,811	1.1	3,023	501,697	1.2
Region 11 Arkansas-White-Red	1,299	137,155	1.2	675	93,954	1.2	624	43,201	1.2
Region 12 Texas-Gulf	1,182	82,043	1.1	666	42,681	1.1	516	39,362	1.2
Region 13 Rio Grande	2,447	130,304	1.3	536	24,953	1.9	1,911	105,351	1.2
Region 14 Upper Colorado	4,855	422,057	1.7	1,737	87,936	1.6	3,118	334,121	1.7
Region 15 Lower Colorado	1,828	55,140	3.0	461	10,860	2.5	1,367	44,280	3.1
Region 16 Great Basin	3,500	285,003	2.2	1,311	27,072	2.0	2,189	257,931	2.2
Region 17 Pacific Northwest	17,913	660,326	1.6	10,217	297,896	1.5	7,696	362,430	1.7
Region 18 California	4,071	504,300	1.9	1,198	68,474	1.6	2,873	435,826	2.0
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	91	5,479	0.8	70	1,525	1.0	21	3,954	0.7

[1] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.
[2] Respondents were asked to report in dry tons.

Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for grain or seed											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	37,247	13,289,247	7,331	2,778,547	1,246	480,359	31,048	11,932,951	5,067	682,720	5,948	994,518
2008 [2]	33,571	11,991,515	7,620	2,925,295	2,961	992,784	28,085	10,731,588	5,487	750,600	4,361	833,522
2013 DATA												
Alabama	135	35,551	20	3,314	2	(D)	65	17,569	73	16,704	17	3,678
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	94	46,082	45	33,696	20	12,254	64	43,633	1	(D)	44	4,999
Arkansas	1,497	698,974	94	21,056	66	17,336	1,464	665,186	263	64,114	24	8,940
California	489	152,261	138	26,401	21	18,183	246	46,524	91	25,602	277	101,468
Colorado	1,689	583,424	424	276,900	76	53,581	944	479,111	203	20,036	863	109,263
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	237	59,543	74	20,948	8	2,288	231	57,533	16	(D)	10	700
Florida	119	27,477	44	9,264	20	3,618	116	24,057	8	2,320	3	1,440
Georgia	1,009	253,218	169	45,292	22	2,740	824	206,441	361	57,279	21	1,465
Hawaii	20	5,313	7	2,999	2	(D)	6	1,565	3	2,169	16	1,769
Idaho	888	132,254	158	25,908	60	7,717	177	44,238	244	28,996	593	65,555
Illinois	912	375,813	152	88,127	12	2,316	887	370,134	39	4,974	3	3,910
Indiana	886	309,977	46	15,912	10	5,270	801	279,677	137	31,202	19	3,789
Iowa	441	117,932	70	18,000	2	(D)	404	111,864	34	4,725	18	2,335
Kansas	3,713	1,505,272	1,116	390,971	192	48,937	3,544	1,480,681	194	14,648	143	21,787
Kentucky	78	27,907	13	1,833	5	960	57	16,540	22	(D)	1	(D)
Louisiana	485	298,958	8	3,600	6	2,400	447	278,073	83	22,546	9	2,980
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	260	43,580	74	10,658	2	(D)	207	36,241	77	6,990	13	1,205
Massachusetts	7	7	-	-	-	-	7	7	-	-	-	-
Michigan	923	299,962	87	28,411	12	3,224	715	244,047	343	54,825	74	5,802
Minnesota	1,146	267,208	132	45,176	1	(D)	1,077	257,950	86	7,085	31	3,703
Mississippi	782	521,338	19	4,450	3	2,100	684	489,945	146	29,777	12	4,228
Missouri	961	349,395	83	22,185	18	4,551	810	324,723	144	22,989	38	4,603
Montana	298	41,170	28	7,078	-	-	-	-	15	3,232	287	37,938
Nebraska	13,915	5,351,824	2,938	1,124,435	469	211,752	13,325	5,026,975	1,465	134,827	1,779	334,482
Nevada	19	(D)	4	1,829	1	(D)	10	(D)	-	-	9	420
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	77	8,536	5	458	-	-	58	6,284	24	2,825	-	-
New Mexico	144	47,342	16	26,196	-	-	101	23,618	19	3,350	25	20,383
New York	37	3,166	-	-	-	-	12	380	21	2,560	4	226
North Carolina	226	28,540	5	1,000	5	1,000	75	14,065	148	13,037	9	1,570
North Dakota	248	91,616	89	39,885	7	885	201	81,898	33	5,049	30	5,074
Ohio	46	9,925	6	769	-	-	26	7,013	14	1,029	7	1,883
Oklahoma	221	100,185	71	27,791	7	7,566	195	91,999	8	2,250	22	6,576
Oregon	300	37,983	40	6,784	17	941	68	7,516	126	8,236	172	24,862
Pennsylvania	38	1,531	3	24	3	24	15	409	28	1,328	1	(D)
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	183	41,442	25	8,986	4	2,205	154	36,148	48	6,309	12	(D)
South Dakota	788	199,926	103	27,030	-	-	617	159,941	86	15,168	134	28,560
Tennessee	197	69,820	22	7,675	3	310	166	63,665	28	5,209	6	956
Texas	1,756	792,089	551	288,890	90	39,567	1,466	746,656	220	14,566	126	36,706
Utah	339	37,141	130	15,114	18	2,980	55	7,856	23	5,230	274	28,101
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	76	15,182	4	632	-	-	7	905	59	12,715	13	1,762
Washington	617	98,131	141	42,815	53	20,610	68	24,032	30	5,872	539	68,827
West Virginia	4	(D)	-	-	-	-	1	(D)	3	3	-	-
Wisconsin	652	145,744	143	46,408	3	533	587	138,781	89	7,830	22	1,943
Wyoming	295	53,846	34	9,647	6	2,340	64	16,832	12	1,850	248	39,948
Water Resources Regions												
Region 01 New England	7	7	-	-	-	-	7	7	-	-	-	-
Region 02 Mid-Atlantic	713	129,825	160	32,720	13	2,612	529	102,012	218	26,281	37	3,686
Region 03 South Atlantic-Gulf	1,735	389,374	280	71,106	53	10,033	1,237	290,770	709	106,479	52	7,169
Region 04 Great Lakes	1,297	397,977	134	42,759	18	4,682	1,040	333,520	422	64,495	81	6,782
Region 05 Ohio	619	206,682	38	12,976	9	4,572	543	186,980	85	17,987	13	2,801
Region 06 Tennessee	97	25,520	6	1,895	2	(D)	44	11,106	43	12,564	18	3,310
Region 07 Upper Mississippi	2,959	860,252	437	175,277	21	4,527	2,708	808,943	305	46,540	67	12,811
Region 08 Lower Mississippi	3,120	1,704,345	132	34,894	78	22,362	3,036	1,644,922	399	93,139	31	10,448
Region 09 Souris-Red-Rainy	214	77,390	52	24,223	3	630	205	73,502	12	3,193	11	1,895
Region 10 Missouri	18,879	6,854,073	4,115	1,599,626	697	282,655	16,760	6,277,569	1,923	195,736	3,320	561,001
Region 11 Arkansas-White-Red	3,594	1,812,603	1,118	528,671	160	84,318	3,509	1,776,552	184	31,683	60	19,757
Region 12 Texas-Gulf	933	280,022	189	82,285	-	-	667	244,809	190	2,806	121	36,951
Region 13 Rio Grande	99	8,156	-	-	-	-	68	(D)	13	(D)	19	2,589
Region 14 Upper Colorado	252	37,907	43	21,269	1	(D)	1	(D)	49	3,338	231	35,707
Region 15 Lower Colorado	104	46,572	49	34,096	20	12,254	74	44,123	1	(D)	44	4,999
Region 16 Great Basin	302	31,760	94	11,843	18	3,609	55	(D)	20	5,224	237	21,291
Region 17 Pacific Northwest	1,812	268,788	339	75,507	130	29,268	313	75,786	400	43,104	1,311	159,664
Region 18 California	491	152,681	138	26,401	21	18,183	246	46,524	91	25,602	279	101,888
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	20	5,313	7	2,999	2	(D)	6	1,565	3	2,169	16	1,769

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Corn for silage or greenchop											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	8,382	1,729,358	2,087	440,327	325	66,653	4,329	1,164,020	1,309	306,772	4,318	562,021
2008 [2]	9,135	1,633,540	2,191	504,670	962	271,377	5,132	1,011,824	2,266	378,548	3,844	604,188
2013 DATA												
Alabama	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	69	30,364	40	16,268	-	-	22	12,121	10	4,590	54	17,839
Arkansas	21	840	-	-	-	-	21	840	-	-	-	-
California	1,583	363,651	453	72,616	140	9,390	773	262,434	524	153,284	1,057	157,067
Colorado	579	103,698	48	4,701	61	4,040	287	37,750	54	8,828	410	67,051
Connecticut	5	(D)	-	-	-	-	-	-	5	(D)	-	-
Delaware	12	1,348	-	-	-	-	12	1,348	-	-	-	-
Florida	38	12,416	12	2,660	4	2,200	21	7,581	23	5,100	1	(D)
Georgia	48	15,995	21	1,950	-	-	44	13,330	12	3,555	4	160
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,521	203,110	409	43,944	11	16,852	172	79,546	88	16,483	1,383	121,692
Illinois	8	130	-	-	-	-	3	30	5	100	-	-
Indiana	58	7,948	6	694	6	694	47	7,386	10	402	4	160
Iowa	6	762	2	(D)	2	(D)	2	(D)	4	(D)	-	-
Kansas	474	108,442	99	19,869	-	-	474	108,442	41	3,100	-	-
Kentucky	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Louisiana	9	1,305	-	-	-	-	6	210	3	1,095	-	-
Maine	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Maryland	13	1,987	2	(D)	-	-	7	1,503	5	559	2	(D)
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	71	11,379	2	(D)	-	-	63	8,859	34	3,881	2	(D)
Minnesota	142	17,188	13	1,091	2	(D)	142	(D)	3	(D)	-	-
Mississippi	12	1,140	-	-	-	-	-	-	12	1,140	-	-
Missouri	17	1,530	4	320	-	-	4	800	13	730	-	-
Montana	267	36,522	29	10,286	4	80	-	-	16	6,280	257	30,922
Nebraska	1,130	297,353	458	142,413	-	-	1,060	284,403	73	17,464	212	22,308
Nevada	86	9,740	26	2,990	-	-	25	4,420	15	1,405	57	6,765
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	2	(D)	-	-	-	-	2	(D)	-	-	-	-
New Mexico	303	76,556	113	17,190	27	5,178	252	54,632	63	14,498	55	14,039
New York	1	(D)	-	-	-	-	-	-	1	(D)	-	-
North Carolina	2	(D)	-	-	-	-	-	-	2	(D)	-	-
North Dakota	55	3,863	12	546	-	-	26	2,086	12	600	20	1,177
Ohio	7	1,509	-	-	-	-	4	374	3	1,035	1	(D)
Oklahoma	51	20,517	21	2,008	-	-	46	7,595	2	(D)	3	(D)
Oregon	224	33,976	18	2,595	1	(D)	73	10,810	77	14,785	90	10,456
Pennsylvania	17	1,564	-	-	-	-	10	(D)	8	(D)	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	32	1,900	6	400	-	-	20	1,060	12	840	-	-
South Dakota	95	11,679	16	2,745	-	-	52	6,507	11	2,352	35	2,826
Tennessee	3	221	-	-	-	-	1	(D)	2	(D)	-	-
Texas	360	159,455	60	35,145	14	14,909	360	159,455	5	1,800	-	-
Utah	387	57,351	117	18,768	41	10,787	71	18,464	55	5,384	295	37,338
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	11	1,135	4	368	-	-	-	-	11	1,135	-	-
Washington	240	67,038	46	18,960	3	(D)	62	21,143	34	14,104	168	43,151
West Virginia	3	3	-	-	-	-	-	-	3	3	-	-
Wisconsin	155	27,023	22	9,642	4	292	122	25,373	40	1,655	-	-
Wyoming	261	37,329	28	10,732	5	1,410	39	7,304	17	5,122	208	27,363
Water Resources Regions												
Region 01 New England	6	71	-	-	-	-	1	(D)	6	64	-	-
Region 02 Mid-Atlantic	53	6,126	6	528	-	-	31	3,480	22	2,721	2	(D)
Region 03 South Atlantic-Gulf	121	30,721	39	5,010	4	2,200	86	22,081	49	9,795	5	(D)
Region 04 Great Lakes	150	23,376	8	2,720	-	-	112	19,355	72	5,282	3	722
Region 05 Ohio	34	3,370	4	120	4	(D)	16	1,783	14	1,427	4	160
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	249	38,358	27	9,347	6	866	234	36,802	20	1,561	-	-
Region 08 Lower Mississippi	39	4,100	4	320	-	-	24	1,865	15	2,235	-	-
Region 09 Souris-Red-Rainy	33	1,736	7	306	2	(D)	33	1,736	-	-	-	-
Region 10 Missouri	2,444	501,524	590	173,339	72	5,796	1,582	352,898	206	41,832	1,067	146,803
Region 11 Arkansas-White-Red	506	171,730	162	45,967	14	14,909	498	158,583	11	14,929	6	615
Region 12 Texas-Gulf	353	128,896	37	13,945	12	1,980	338	125,569	20	5,127	-	-
Region 13 Rio Grande	199	49,041	83	12,350	15	3,198	171	30,754	40	10,796	47	13,729
Region 14 Upper Colorado	176	12,008	44	2,204	-	-	9	(D)	34	1,178	164	9,648
Region 15 Lower Colorado	57	30,244	40	16,268	-	-	22	12,121	10	4,590	42	17,719
Region 16 Great Basin	396	60,797	111	20,013	41	10,787	93	20,974	67	6,579	282	39,929
Region 17 Pacific Northwest	1,983	303,609	472	65,274	15	17,367	306	111,409	199	45,372	1,639	174,874
Region 18 California	1,583	363,651	453	72,616	140	9,390	773	262,434	524	153,284	1,057	157,067
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sorghum for grain or seed											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	3,923	809,579	486	123,473	80	39,232	3,396	722,623	170	25,804	489	86,863
2008 [2]	4,118	1,042,392	1,007	190,798	418	170,858	3,535	909,357	379	59,011	387	110,393
2013 DATA												
Alabama	1	(D)	-	-	-	-	-	-	1	(D)	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	53	10,466	16	5,726	3	294	24	3,494	-	-	42	8,772
Arkansas	185	38,909	6	3,432	6	3,432	180	37,409	11	1,800	-	-
California	42	10,305	-	-	-	-	21	2,100	15	5,050	11	3,155
Colorado	155	9,542	30	2,190	-	-	100	4,802	45	3,140	10	1,600
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Florida	15	900	-	-	-	-	15	900	-	-	-	-
Georgia	34	7,706	-	-	-	-	29	7,118	9	908	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	4	112	-	-	-	-	1	(D)	-	-	3	(D)
Illinois	4	84	-	-	-	-	4	84	-	-	-	-
Indiana	5	2,736	2	(D)	2	(D)	5	2,736	2	(D)	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	1,167	175,604	17	3,371	8	1,306	1,059	170,760	2	(D)	108	4,844
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	15	6,120	-	-	-	-	15	5,220	4	1,403	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	12	387	-	-	-	-	5	113	7	274	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	19	1,774	-	-	-	-	19	(D)	2	(D)	-	-
Missouri	40	4,499	11	(D)	-	-	29	4,279	11	220	-	-
Montana	5	100	-	-	-	-	5	95	-	-	5	5
Nebraska	84	4,494	-	-	-	-	84	4,494	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
New Mexico	99	19,607	19	2,038	3	(D)	79	12,907	12	4,600	12	2,488
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	15	883	-	-	-	-	6	408	7	(D)	2	(D)
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	118	20,030	11	1,426	-	-	118	20,030	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	4	190	-	-	-	-	2	(D)	2	(D)	-	-
South Dakota	3	105	-	-	-	-	-	-	-	-	3	105
Tennessee	6	1,397	-	-	-	-	4	(D)	2	(D)	-	-
Texas	1,813	492,796	374	102,834	58	31,664	1,574	441,982	19	5,990	290	65,598
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Washington	19	444	-	-	-	-	16	384	14	392	3	(D)
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	16	626	-	-	-	-	7	(D)	10	440	-	-
Region 03 South Atlantic-Gulf	71	9,829	-	-	-	-	52	8,586	21	1,333	2	(D)
Region 04 Great Lakes	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Region 05 Ohio	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Region 06 Tennessee	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Region 07 Upper Mississippi	9	3,070	2	(D)	2	(D)	9	3,070	2	(D)	-	-
Region 08 Lower Mississippi	220	46,759	6	3,432	6	3,432	215	44,279	17	3,283	-	-
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	495	38,651	31	(D)	-	-	397	33,174	22	1,880	77	3,657
Region 11 Arkansas-White-Red	1,587	307,042	101	26,002	10	2,551	1,517	303,850	36	1,720	35	1,652
Region 12 Texas-Gulf	1,156	370,585	311	82,399	56	30,419	1,071	317,001	31	10,590	124	63,768
Region 13 Rio Grande	230	9,200	19	2,038	3	(D)	57	5,630	-	-	177	3,958
Region 14 Upper Colorado	10	1,600	-	-	-	-	-	-	-	-	10	1,600
Region 15 Lower Colorado	53	10,466	16	5,726	3	294	24	3,494	-	-	42	8,772
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	28	656	-	-	-	-	22	567	14	392	11	(D)
Region 18 California	42	10,305	-	-	-	-	21	2,100	15	5,050	11	3,155
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Wheat for grain or seed											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	12,974	3,197,501	2,290	732,345	413	147,167	8,296	2,176,732	1,203	265,325	4,430	873,083
2008 [2]	16,265	4,107,464	3,358	1,225,432	906	298,427	9,535	2,767,469	2,448	414,102	5,925	1,135,509
2013 DATA												
Alabama	11	2,500	-	-	-	-	3	(D)	7	1,410	2	(D)
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	136	65,301	87	48,426	13	6,964	29	14,567	9	6,221	107	47,496
Arkansas	32	14,344	-	-	-	-	32	14,344	1	(D)	-	-
California	900	339,188	329	96,524	46	33,796	543	157,872	190	61,373	341	176,090
Colorado	857	102,472	110	14,085	5	600	472	75,544	127	6,225	305	25,623
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	62	9,694	-	-	-	-	60	(D)	2	(D)	-	-
Florida	8	(D)	8	152	-	-	8	(D)	-	-	-	-
Georgia	210	50,584	26	9,190	17	1,690	154	37,659	80	14,829	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	2,758	700,201	340	167,434	59	30,334	1,414	414,337	304	66,119	1,454	233,765
Illinois	49	3,441	4	372	2	(D)	49	3,441	-	-	-	-
Indiana	56	4,907	-	-	-	-	56	4,907	2	(D)	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	1,683	471,161	225	54,636	23	3,492	1,683	471,141	3	(D)	1	(D)
Kentucky	6	1,630	-	-	-	-	5	(D)	1	(D)	-	-
Louisiana	31	11,952	-	-	-	-	31	11,952	1	(D)	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	62	5,873	3	270	-	-	62	5,689	4	200	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	66	11,629	4	444	2	(D)	55	10,749	23	1,180	2	(D)
Minnesota	28	5,559	5	830	-	-	22	4,047	-	-	6	1,512
Mississippi	9	3,000	-	-	-	-	9	3,000	-	-	-	-
Missouri	99	30,966	4	800	2	(D)	95	29,866	4	1,100	-	-
Montana	912	164,970	131	22,204	91	3,454	21	7,346	57	13,615	853	144,373
Nebraska	947	121,773	104	34,074	15	3,780	891	118,522	1	(D)	58	3,351
Nevada	48	16,923	23	11,789	3	1,920	39	16,007	5	664	10	582
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	20	730	1	(D)	-	-	20	730	-	-	-	-
New Mexico	189	56,367	36	18,390	5	239	115	37,925	29	6,945	51	12,451
New York	8	790	-	-	-	-	8	790	-	-	-	-
North Carolina	66	6,647	-	-	-	-	19	3,301	47	3,596	1	(D)
North Dakota	91	17,522	16	4,232	-	-	36	6,688	10	1,166	45	9,668
Ohio	1	(D)	-	-	-	-	-	-	1	(D)	-	-
Oklahoma	400	96,948	77	10,662	11	1,188	381	92,408	18	(D)	1	(D)
Oregon	459	149,430	68	19,444	16	3,347	157	54,618	79	29,610	333	78,231
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	38	5,272	1	(D)	-	-	36	4,832	7	940	1	(D)
South Dakota	18	1,822	2	(D)	-	-	12	1,332	-	-	6	490
Tennessee	12	3,060	-	-	-	-	12	3,060	-	-	-	-
Texas	1,494	440,046	338	99,630	34	8,967	1,413	422,234	86	13,300	31	5,522
Utah	415	40,956	84	9,438	2	(D)	43	9,773	25	8,201	360	29,712
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	12	2,230	-	-	-	-	-	-	6	1,000	6	1,230
Washington	712	227,058	249	106,019	64	46,176	267	120,830	63	16,734	442	100,151
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	24	2,377	3	260	-	-	21	1,895	3	482	-	-
Wyoming	45	7,886	12	2,550	3	120	23	4,870	8	1,350	14	1,666
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	156	18,527	4	370	-	-	142	15,603	12	1,710	6	1,230
Region 03 South Atlantic-Gulf	328	63,755	35	9,442	17	1,690	219	46,234	139	20,175	2	(D)
Region 04 Great Lakes	95	13,482	4	444	2	(D)	83	12,462	26	1,350	2	(D)
Region 05 Ohio	28	4,959	2	(D)	2	(D)	27	(D)	1	(D)	-	-
Region 06 Tennessee	5	1,400	-	-	-	-	1	(D)	2	(D)	2	(D)
Region 07 Upper Mississippi	105	11,115	5	392	-	-	97	9,038	5	1,282	3	795
Region 08 Lower Mississippi	170	60,262	4	800	2	(D)	170	60,262	2	(D)	-	-
Region 09 Souris-Red-Rainy	24	3,551	5	830	-	-	18	1,934	3	900	3	717
Region 10 Missouri	2,881	446,353	470	89,735	109	7,354	1,831	262,514	161	17,421	957	169,287
Region 11 Arkansas-White-Red	2,535	821,540	416	125,208	49	12,147	2,469	812,260	45	8,220	31	6,030
Region 12 Texas-Gulf	762	172,560	141	33,300	19	1,500	665	148,143	96	19,685	28	5,022
Region 13 Rio Grande	141	17,466	23	(D)	10	839	79	15,089	19	560	53	2,491
Region 14 Upper Colorado	177	16,168	1	(D)	-	-	1	(D)	-	-	176	(D)
Region 15 Lower Colorado	197	69,761	92	50,926	13	6,964	29	14,567	14	8,721	163	49,456
Region 16 Great Basin	504	81,296	117	25,811	5	1,960	157	43,732	30	8,865	353	37,039
Region 17 Pacific Northwest	3,951	1,050,017	645	287,113	139	79,857	1,751	569,972	462	112,163	2,303	404,308
Region 18 California	915	345,289	326	95,224	46	33,796	557	159,863	186	60,873	348	180,700
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Soybeans for beans											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	21,755	7,413,276	1,173	263,701	569	187,665	20,080	6,858,900	2,739	613,234	1,510	175,358
2008 [2]	23,024	7,044,546	1,615	466,357	952	301,167	21,340	6,448,846	3,245	619,824	928	136,708
2013 DATA												
Alabama	62	15,385	2	(D)	-	-	25	5,814	30	6,759	12	4,572
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	3,222	2,592,619	122	77,322	133	82,613	3,099	2,372,800	817	356,760	69	25,964
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	60	7,790	18	2,050	-	-	60	7,790	-	-	-	-
Connecticut	7	7	7	7	-	-	7	7	-	-	-	-
Delaware	209	32,371	14	1,931	8	1,192	202	30,636	16	2,134	6	380
Florida	14	2,880	4	2,000	2	(D)	14	2,880	-	-	-	-
Georgia	262	55,036	14	490	18	2,010	180	35,914	121	19,927	5	655
Hawaii	2	(D)	2	(D)	-	-	-	-	2	(D)	-	-
Idaho	16	1,104	-	-	-	-	-	-	-	-	16	1,104
Illinois	586	112,182	15	2,064	2	(D)	562	106,782	28	2,262	2	(D)
Indiana	549	98,378	4	1,032	4	708	478	89,653	71	7,437	31	2,564
Iowa	251	50,421	3	135	3	156	239	49,612	11	503	7	466
Kansas	1,842	316,362	252	43,869	106	17,027	1,712	304,594	200	8,612	126	9,168
Kentucky	60	13,855	3	340	2	(D)	44	7,844	17	5,815	3	196
Louisiana	548	263,466	14	2,965	18	5,365	494	233,980	91	29,547	17	4,149
Maine	8	8	-	-	-	-	8	8	-	-	-	-
Maryland	196	26,294	6	796	2	(D)	170	22,183	48	4,284	6	290
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	511	83,905	23	3,646	8	980	378	63,984	173	18,795	33	1,916
Minnesota	643	94,717	4	1,890	3	287	615	88,839	23	2,598	20	3,400
Mississippi	1,101	913,850	8	1,381	21	5,451	1,041	878,937	228	37,976	9	1,585
Missouri	1,152	521,166	43	17,858	18	7,785	1,004	495,870	153	25,883	21	3,341
Montana	23	4,092	11	2,012	-	-	-	-	4	680	19	3,412
Nebraska	8,990	1,935,369	545	90,624	203	60,259	8,637	1,854,783	398	40,612	978	77,996
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	53	6,620	-	-	-	-	37	(D)	23	2,137	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
New York	5	(D)	-	-	-	-	5	(D)	-	-	-	-
North Carolina	86	8,989	5	375	-	-	31	6,111	54	2,430	3	570
North Dakota	154	26,955	5	325	3	1,200	123	23,297	15	1,745	22	2,528
Ohio	38	2,061	-	-	-	-	28	1,734	11	(D)	-	-
Oklahoma	134	31,469	20	5,307	12	1,398	113	26,622	13	740	12	4,307
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	3	86	-	-	-	-	-	-	3	86	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	60	8,279	1	(D)	-	-	56	7,085	19	2,034	1	(D)
South Dakota	412	77,706	8	1,921	-	-	345	59,618	56	7,557	62	14,946
Tennessee	145	43,144	2	(D)	2	(D)	125	39,460	18	3,272	4	536
Texas	50	16,922	6	930	-	-	20	4,622	30	12,300	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	56	10,327	-	-	-	-	5	401	43	8,386	8	1,540
Washington	3	513	3	513	-	-	-	-	-	-	3	513
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	229	33,139	9	1,280	1	(D)	223	32,327	23	1,502	2	(D)
Wyoming	13	5,720	-	-	-	-	-	-	-	-	13	5,720
Water Resources Regions												
Region 01 New England	15	15	7	7	-	-	15	15	-	-	-	-
Region 02 Mid-Atlantic	505	74,855	20	2,727	10	1,392	411	57,657	124	16,385	20	2,210
Region 03 South Atlantic-Gulf	509	89,975	26	3,365	20	2,280	302	57,901	268	33,631	9	1,295
Region 04 Great Lakes	693	121,264	26	4,506	10	1,554	544	98,752	208	22,050	36	2,296
Region 05 Ohio	450	84,370	7	1,478	4	480	377	75,216	58	7,784	21	1,370
Region 06 Tennessee	59	12,700	-	-	-	-	17	(D)	26	(D)	18	5,208
Region 07 Upper Mississippi	1,664	255,419	25	3,763	5	454	1,508	227,757	172	19,913	35	9,273
Region 08 Lower Mississippi	5,205	3,883,709	149	85,680	163	93,191	5,036	3,640,435	1,029	385,288	70	23,403
Region 09 Souris-Red-Rainy	144	27,114	3	(D)	4	1,327	135	25,617	-	-	9	1,497
Region 10 Missouri	10,820	2,262,083	713	111,264	278	65,702	10,143	2,128,739	669	64,685	1,232	114,311
Region 11 Arkansas-White-Red	1,665	599,641	192	49,744	75	21,285	1,587	543,563	183	57,340	41	12,878
Region 12 Texas-Gulf	5	(D)	-	-	-	-	5	(D)	-	-	-	-
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	19	1,617	3	513	-	-	-	-	-	-	19	1,617
Region 18 California	-	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	2	(D)	-	-	-	-	2	(D)	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Beans, dry edible											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	2,793	433,590	356	109,391	137	50,067	903	222,123	292	38,259	1,836	204,574
2008 [2]	2,849	431,329	359	73,830	167	48,696	1,025	200,983	689	58,425	1,397	183,853
2013 DATA												
Alabama	4	8	-	-	-	-	-	-	4	8	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	35	9,828	25	6,908	13	5,080	28	7,713	-	-	9	3,855
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	164	38,855	17	5,061	16	4,324	96	19,579	9	1,798	119	28,435
Colorado	109	16,525	16	2,559	11	(D)	55	9,559	25	2,540	59	6,746
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	4	1,116	-	-	-	-	6	1,188	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	20	2,182	-	-	-	-	13	2,175	9	407	-	-
Hawaii	9	31	2	(D)	-	-	-	-	-	-	9	31
Idaho	1,102	66,892	49	10,048	34	9,028	104	12,833	68	9,826	991	50,401
Illinois	5	352	4	252	-	-	5	352	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	82	10,560	35	4,200	-	-	82	10,560	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	8	8	-	-	-	-	-	-	-	-	8	8
Maryland	4	780	2	(D)	2	(D)	4	780	-	-	-	-
Massachusetts	14	14	-	-	-	-	7	7	7	7	-	-
Michigan	44	10,798	4	430	2	(D)	31	8,082	17	2,986	-	-
Minnesota	77	32,443	10	3,468	-	-	69	30,063	10	2,260	3	120
Mississippi	36	36	-	-	-	-	-	-	-	-	36	36
Missouri	3	(D)	-	-	-	-	3	(D)	-	-	-	-
Montana	69	8,420	-	-	-	-	-	-	19	2,502	68	8,060
Nebraska	362	125,226	76	41,585	3	1,720	160	74,182	15	6,060	205	46,244
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	5	(D)	-	-	-	-	5	(D)	1	(D)	-	-
New Mexico	39	10,001	13	8,527	1	(D)	38	(D)	-	-	1	(D)
New York	1	(D)	-	-	-	-	-	-	1	(D)	-	-
North Carolina	6	1,506	-	-	-	-	6	1,506	6	1,506	-	-
North Dakota	42	7,541	5	660	2	(D)	27	(D)	6	360	9	(D)
Ohio	14	23	5	5	-	-	-	-	9	18	5	5
Oklahoma	9	1,080	1	(D)	1	(D)	9	1,080	-	-	-	-
Oregon	43	8,113	4	1,167	-	-	17	2,698	2	(D)	34	5,950
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	14	19	-	-	-	-	9	9	-	-	5	10
South Dakota	4	3,310	2	(D)	-	-	3	(D)	-	-	1	(D)
Tennessee	12	128	1	(D)	-	-	1	(D)	9	58	2	(D)
Texas	37	3,196	-	-	-	-	37	3,196	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	10	10	7	7	-	-	3	3	7	7	-	-
Virginia	7	7	-	-	-	-	7	7	-	-	-	-
Washington	156	31,560	42	17,245	40	17,529	32	11,828	28	(D)	112	21,205
West Virginia	3	3	-	-	-	-	-	-	3	3	-	-
Wisconsin	16	5,625	2	(D)	-	-	16	5,625	-	-	-	-
Wyoming	224	35,181	34	6,665	12	2,910	30	6,410	37	5,040	160	23,731
Water Resources Regions												
Region 01 New England	25	25	-	-	-	-	10	10	7	7	8	8
Region 02 Mid-Atlantic	20	2,116	2	(D)	2	(D)	22	2,188	1	(D)	-	-
Region 03 South Atlantic-Gulf	80	3,751	-	-	-	-	28	3,690	19	1,921	41	(D)
Region 04 Great Lakes	61	11,173	11	437	2	(D)	31	8,082	34	3,361	-	-
Region 05 Ohio	8	8	5	5	-	-	-	-	3	3	5	5
Region 06 Tennessee	11	98	1	(D)	-	-	-	-	9	(D)	2	(D)
Region 07 Upper Mississippi	78	31,803	14	3,240	-	-	77	31,103	3	(D)	3	(D)
Region 08 Lower Mississippi	4	(D)	-	-	-	-	4	(D)	-	-	-	-
Region 09 Souris-Red-Rainy	54	13,538	7	1,160	2	(D)	38	10,358	7	1,680	9	1,500
Region 10 Missouri	810	195,226	163	55,279	26	(D)	332	103,591	82	15,462	445	80,855
Region 11 Arkansas-White-Red	19	(D)	1	(D)	1	(D)	9	(D)	-	-	10	2,000
Region 12 Texas-Gulf	41	4,496	-	-	-	-	41	4,496	-	-	-	-
Region 13 Rio Grande	34	1,194	12	(D)	-	-	34	1,194	-	-	-	-
Region 14 Upper Colorado	39	10,123	1	(D)	1	(D)	-	-	20	1,040	39	10,123
Region 15 Lower Colorado	35	9,828	25	6,908	13	5,080	28	7,713	-	-	9	3,855
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	1,301	106,565	95	28,460	74	26,557	153	27,359	98	12,319	1,137	77,556
Region 18 California	164	38,855	17	5,061	16	4,324	96	19,579	9	1,798	119	28,435
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	9	31	2	(D)	-	-	-	-	-	-	9	31

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Rice											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	5,613	3,132,894	464	179,944	381	147,285	3,529	1,843,682	1,367	544,887	2,103	998,106
2008 [2]	5,265	2,683,363	646	292,972	481	214,051	3,861	1,800,236	1,563	549,532	1,058	497,879
2013 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	2,099	1,294,506	128	52,803	106	43,983	1,982	1,136,017	676	259,037	50	23,467
California	2,026	1,051,374	291	114,090	244	92,520	463	158,013	377	137,063	1,750	871,309
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	7	(D)	-	-	-	-	-	-	4	2,700	5	8,462
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	2	(D)	2	(D)	-	-	-	-	2	(D)	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	716	448,885	22	2,599	12	1,840	566	305,952	232	122,681	70	30,416
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	215	108,920	3	(D)	3	900	200	100,195	36	9,995	2	(D)
Missouri	260	133,780	5	3,042	3	1,542	254	131,730	13	(D)	2	(D)
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Texas	286	85,752	13	6,500	13	6,500	62	(D)	26	(D)	224	62,652
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	7	(D)	-	-	-	-	-	-	4	(D)	5	8,462
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Region 08 Lower Mississippi	2,759	1,659,731	114	50,803	95	44,227	2,507	1,383,094	848	356,102	95	38,718
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	532	326,425	44	8,541	29	4,038	496	290,865	109	36,982	29	16,965
Region 12 Texas-Gulf	286	85,752	13	(D)	13	6,500	62	(D)	26	(D)	224	62,652
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	2,026	1,051,374	291	114,090	244	92,520	463	158,013	377	137,063	1,750	871,309
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	2	(D)	-	-	-	-	2	(D)	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Other small grains (barley, oats, rye, etc.) (see text)											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	6,258	1,209,527	801	167,846	203	63,353	2,125	487,333	812	140,103	3,903	640,456
2008 [2]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2013 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	323	61,072	93	25,537	13	4,678	138	28,890	19	10,230	235	30,862
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	334	77,523	32	4,063	3	1,268	224	31,310	73	6,348	123	52,088
Colorado	242	58,106	78	29,741	22	7,893	179	48,871	41	11,738	59	6,930
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	12	1,495	-	-	-	-	12	1,495	-	-	-	-
Florida	29	3,443	-	-	-	-	22	1,868	14	2,275	-	-
Georgia	50	3,615	16	800	-	-	45	2,435	19	1,280	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,452	442,001	66	33,639	44	23,197	460	190,715	208	54,551	962	204,947
Illinois	4	300	-	-	-	-	4	300	-	-	-	-
Indiana	5	32	-	-	-	-	2	(D)	3	(D)	-	-
Iowa	5	10	-	-	-	-	5	10	-	-	-	-
Kansas	100	13,669	35	3,045	-	-	100	13,669	-	-	-	-
Kentucky	7	42	7	42	7	42	-	-	7	42	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Maryland	6	1,264	-	-	-	-	8	1,160	2	(D)	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	10	1,107	-	-	-	-	10	1,107	-	-	-	-
Minnesota	56	2,026	-	-	-	-	53	1,259	1	(D)	3	(D)
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1,114	242,871	66	18,510	4	1,120	22	3,702	83	19,616	1,047	222,827
Nebraska	103	14,904	43	4,524	-	-	103	14,904	-	-	1	(D)
Nevada	66	9,495	12	2,673	-	-	25	4,700	14	3,443	38	2,352
New Hampshire	1	(D)	-	-	-	-	1	(D)	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	177	11,704	13	1,715	-	-	81	7,756	34	1,556	85	4,013
New York	2	(D)	-	-	-	-	2	(D)	-	-	-	-
North Carolina	28	1,712	-	-	-	-	-	-	28	1,712	-	-
North Dakota	41	7,039	8	1,355	3	150	17	2,065	1	(D)	24	4,974
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	41	6,192	11	1,518	-	-	41	6,192	-	-	-	-
Oregon	113	14,907	17	529	1	(D)	27	4,586	10	5,181	84	5,679
Pennsylvania	3	105	-	-	-	-	3	105	3	105	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	22	1,149	-	-	-	-	2	(D)	7	598	17	735
Tennessee	1	(D)	-	-	-	-	-	-	1	(D)	-	-
Texas	282	91,518	62	20,315	14	17,375	282	91,518	-	-	-	-
Utah	1,007	43,757	199	6,139	78	1,346	149	15,654	108	7,550	822	29,044
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	139	21,409	19	4,933	4	(D)	47	7,543	30	4,391	77	10,839
West Virginia	3	3	-	-	-	-	-	-	3	3	-	-
Wisconsin	34	1,889	-	-	-	-	34	(D)	1	(D)	-	-
Wyoming	444	74,683	24	8,768	10	5,200	27	3,635	100	8,553	326	64,349
Water Resources Regions												
Region 01 New England	3	405	-	-	-	-	1	(D)	2	(D)	-	-
Region 02 Mid-Atlantic	23	2,924	-	-	-	-	25	2,820	5	(D)	-	-
Region 03 South Atlantic-Gulf	107	8,770	16	800	-	-	67	(D)	61	5,267	-	-
Region 04 Great Lakes	17	1,209	-	-	-	-	14	1,197	3	12	-	-
Region 05 Ohio	10	(D)	7	42	7	42	-	-	10	(D)	-	-
Region 06 Tennessee	1	(D)	-	-	-	-	-	-	1	(D)	-	-
Region 07 Upper Mississippi	78	2,988	-	-	-	-	78	(D)	2	(D)	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	21	2,231	3	150	3	150	14	590	-	-	7	1,641
Region 10 Missouri	1,667	339,937	168	35,567	14	6,320	252	28,690	210	33,927	1,275	284,771
Region 11 Arkansas-White-Red	250	56,986	71	10,008	14	17,375	246	55,506	4	1,480	-	-
Region 12 Texas-Gulf	151	50,262	37	14,870	-	-	151	50,262	-	-	-	-
Region 13 Rio Grande	242	55,931	55	28,396	22	7,893	155	51,788	41	5,984	81	6,883
Region 14 Upper Colorado	358	12,511	64	1,913	-	-	54	5,630	31	1,215	299	6,641
Region 15 Lower Colorado	222	61,186	98	25,737	13	4,678	142	29,690	24	10,430	125	29,976
Region 16 Great Basin	1,140	80,268	153	7,399	78	1,346	184	19,454	118	13,143	906	56,637
Region 17 Pacific Northwest	1,626	449,786	102	39,101	49	24,281	509	200,855	231	57,563	1,081	201,483
Region 18 California	342	84,068	27	3,863	3	1,268	233	33,719	69	10,148	129	52,424
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	46,181	5,512,871	3,213	620,206	1,514	277,656	14,257	2,216,445	5,276	817,582	29,652	2,927,186
2008 [2]	48,315	6,187,983	3,685	859,111	1,819	425,254	12,282	2,379,074	12,016	1,352,443	27,603	2,990,549
2013 DATA												
Alabama	5	35	-	-	-	-	-	-	5	35	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,224	270,449	236	125,205	100	22,085	364	76,965	28	27,650	943	202,215
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	2,412	664,318	336	87,663	199	56,358	1,748	350,343	441	136,588	860	329,872
Colorado	6,561	558,389	299	47,684	81	5,810	1,328	181,643	620	70,447	5,076	367,958
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Florida	3	219	-	-	-	-	3	219	-	-	-	-
Georgia	4	48	-	-	-	-	4	48	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	7,118	872,207	470	48,159	292	30,337	1,527	301,358	596	118,929	5,470	478,317
Illinois	19	1,001	-	-	-	-	14	686	5	315	-	-
Indiana	50	2,943	4	80	-	-	44	2,337	4	494	4	112
Iowa	9	443	-	-	-	-	7	(D)	2	(D)	-	-
Kansas	524	152,293	4	(D)	46	12,181	470	149,973	60	3,140	-	-
Kentucky	5	50	-	-	-	-	-	-	5	50	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Maryland	9	288	-	-	-	-	6	168	-	-	3	120
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	94	11,244	-	-	-	-	56	7,644	31	3,264	15	1,044
Minnesota	240	14,306	6	736	4	210	223	12,678	7	662	12	966
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	8	352	-	-	-	-	8	352	-	-	-	-
Montana	3,354	549,849	68	16,851	8	1,680	431	16,999	418	119,121	2,610	418,495
Nebraska	3,234	237,544	99	11,704	-	-	2,769	206,744	131	10,423	392	24,968
Nevada	1,231	321,610	166	81,450	55	28,322	599	248,911	237	42,058	547	89,225
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	17	230	-	-	-	-	17	230	-	-	-	-
New Mexico	3,767	195,157	321	15,040	101	11,494	1,107	90,747	743	35,316	2,028	79,758
New York	1	(D)	-	-	-	-	-	-	1	(D)	-	-
North Carolina	17	1,700	-	-	-	-	-	-	17	1,700	-	-
North Dakota	96	9,055	5	(D)	-	-	31	4,980	29	2,480	37	1,665
Ohio	5	255	-	-	-	-	2	(D)	3	(D)	-	-
Oklahoma	91	17,689	5	380	-	-	83	13,553	8	4,136	6	(D)
Oregon	2,406	317,447	187	24,349	32	4,148	601	129,651	347	54,430	1,660	148,399
Pennsylvania	41	763	6	18	-	-	33	75	8	688	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	2	(D)	-	-	-	-	-	-	2	(D)	-	-
South Dakota	488	57,964	7	620	11	1,441	134	8,870	58	7,562	314	42,594
Tennessee	14	557	-	-	-	-	-	-	12	(D)	2	(D)
Texas	661	77,825	125	14,282	48	8,427	410	74,774	167	832	86	2,719
Utah	6,697	521,184	431	59,871	307	61,390	817	166,801	602	68,889	5,667	331,134
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	3	(D)	2	(D)	-	-	-	-	3	(D)	-	-
Washington	2,709	275,809	262	51,949	147	21,138	830	80,373	256	35,896	1,786	174,375
West Virginia	3	42	-	-	-	-	-	-	3	42	-	-
Wisconsin	201	21,513	8	486	5	135	190	20,517	15	(D)	1	(D)
Wyoming	2,855	355,859	166	24,532	78	12,500	398	68,329	411	68,637	2,133	232,695
Water Resources Regions												
Region 01 New England	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Region 02 Mid-Atlantic	69	1,303	8	(D)	-	-	58	(D)	8	702	3	(D)
Region 03 South Atlantic-Gulf	32	3,744	-	-	-	-	7	267	25	3,477	-	-
Region 04 Great Lakes	176	16,981	-	-	-	-	130	12,630	41	4,015	15	1,044
Region 05 Ohio	36	2,094	4	80	-	-	18	1,296	16	686	4	112
Region 06 Tennessee	12	(D)	-	-	-	-	-	-	10	(D)	2	(D)
Region 07 Upper Mississippi	388	30,443	12	1,018	7	(D)	362	28,086	21	1,641	10	716
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	60	5,985	2	(D)	2	(D)	42	4,899	-	-	18	1,086
Region 10 Missouri	10,886	1,242,994	353	54,918	74	15,946	4,361	367,897	1,245	207,571	5,815	704,186
Region 11 Arkansas-White-Red	2,077	331,698	31	10,861	112	14,509	829	201,046	193	26,281	1,081	117,241
Region 12 Texas-Gulf	529	50,475	40	4,908	43	3,525	347	39,907	177	8,534	12	2,344
Region 13 Rio Grande	3,784	267,899	462	48,803	113	17,713	1,372	191,001	644	29,545	1,922	81,235
Region 14 Upper Colorado	5,306	347,961	372	37,609	57	3,143	320	19,121	315	46,111	4,783	297,681
Region 15 Lower Colorado	1,386	296,553	299	138,900	144	28,565	510	90,106	86	37,112	912	205,716
Region 16 Great Basin	6,239	721,162	350	113,023	261	77,809	1,212	396,694	742	94,655	4,764	331,002
Region 17 Pacific Northwest	12,501	1,492,133	931	125,067	487	55,903	2,875	490,481	1,316	229,467	9,214	830,980
Region 18 California	2,699	700,959	349	84,743	214	60,198	1,813	372,503	436	127,338	1,097	353,683
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other hay (dry hay, greenchop, and silage)											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	28,142	3,300,889	2,167	394,785	340	58,107	7,966	1,123,754	5,578	803,159	16,207	1,604,734
2008 [2]	29,553	3,351,986	3,525	500,401	616	95,815	7,819	916,199	9,597	1,338,828	14,444	1,430,196
2013 DATA												
Alabama	37	2,997	-	-	-	-	8	1,700	27	(D)	2	(D)
Alaska	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Arizona	543	47,960	121	23,293	20	4,877	121	20,282	58	3,330	406	27,764
Arkansas	183	12,102	12	420	-	-	36	1,880	144	9,672	13	1,300
California	2,212	437,280	292	116,690	34	25,061	644	235,660	254	116,950	1,628	204,525
Colorado	4,314	427,628	204	30,403	23	1,835	500	49,054	590	115,966	3,297	269,967
Connecticut	6	39	-	-	-	-	-	-	3	24	3	15
Delaware	9	685	-	-	-	-	9	685	-	-	-	-
Florida	138	19,540	-	-	-	-	90	8,082	45	8,826	3	2,632
Georgia	219	22,954	-	-	-	-	145	11,644	69	8,400	12	4,960
Hawaii	2	(D)	-	-	-	-	-	-	-	-	2	(D)
Idaho	1,553	177,917	20	475	-	-	268	36,790	183	46,608	1,141	97,519
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	15	1,160	-	-	-	-	13	(D)	2	(D)	-	-
Iowa	6	60	-	-	-	-	6	60	-	-	-	-
Kansas	469	63,238	12	4,811	-	-	469	63,238	2	(D)	35	1,050
Kentucky	35	729	-	-	-	-	-	-	35	719	5	10
Louisiana	29	4,039	-	-	-	-	14	634	11	2,405	4	1,000
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	5	106	-	-	-	-	2	(D)	3	(D)	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	3	220	-	-	-	-	-	-	3	220	-	-
Minnesota	30	2,450	2	(D)	2	(D)	15	1,060	3	790	12	600
Mississippi	23	335	-	-	-	-	12	60	11	275	-	-
Missouri	104	4,798	-	-	-	-	46	2,533	51	1,010	7	1,255
Montana	2,221	312,134	80	18,951	87	915	57	15,930	597	97,737	1,649	210,243
Nebraska	513	48,958	43	15,072	1	(D)	349	46,758	-	-	164	2,200
Nevada	695	115,056	111	8,689	8	3,423	151	31,107	226	42,965	390	50,886
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	2	(D)	-	-	-	-	2	(D)	-	-	-	-
New Mexico	1,058	86,015	250	11,210	21	4,712	367	63,093	394	11,893	361	13,997
New York	11	330	-	-	-	-	6	(D)	9	300	-	-
North Carolina	293	16,688	29	785	-	-	17	613	267	14,515	9	1,560
North Dakota	10	632	3	225	-	-	3	450	7	182	-	-
Ohio	4	212	-	-	-	-	2	(D)	2	(D)	-	-
Oklahoma	359	40,701	60	5,891	-	-	298	34,753	58	5,408	8	1,910
Oregon	3,710	328,487	68	16,965	14	1,585	797	85,720	871	91,195	2,377	163,967
Pennsylvania	9	660	-	-	-	-	1	(D)	6	(D)	2	(D)
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	80	1,386	44	176	44	176	72	788	8	598	-	-
South Dakota	32	3,386	3	1,080	-	-	12	1,519	3	135	17	1,732
Tennessee	41	1,064	-	-	2	(D)	13	148	24	696	4	220
Texas	3,097	375,908	414	82,314	23	391	2,323	320,101	625	31,094	387	40,843
Utah	2,407	160,211	128	13,894	47	2,235	514	36,950	275	31,987	1,828	106,776
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	14	140	-	-	-	-	-	-	7	56	7	84
Washington	1,687	125,011	156	22,154	12	6,479	455	22,906	284	27,692	982	84,978
West Virginia	3	45	-	-	-	-	-	-	3	45	-	-
Wisconsin	47	4,618	2	(D)	-	-	33	3,448	2	(D)	14	(D)
Wyoming	1,912	452,370	113	20,691	2	(D)	94	24,165	416	129,319	1,438	310,966
Water Resources Regions												
Region 01 New England	6	39	-	-	-	-	-	-	3	24	3	15
Region 02 Mid-Atlantic	45	1,721	-	-	-	-	16	951	20	386	9	384
Region 03 South Atlantic-Gulf	782	63,586	73	961	44	176	341	22,878	424	33,786	24	8,972
Region 04 Great Lakes	23	1,830	-	-	-	-	8	790	12	520	9	640
Region 05 Ohio	40	1,196	-	-	-	-	13	592	27	594	5	10
Region 06 Tennessee	45	1,477	-	-	2	(D)	8	(D)	31	888	6	(D)
Region 07 Upper Mississippi	74	5,992	2	(D)	-	-	50	3,942	3	790	21	1,260
Region 08 Lower Mississippi	107	8,251	12	420	-	-	33	1,061	57	4,890	17	2,300
Region 09 Souris-Red-Rainy	2	(D)	2	(D)	2	(D)	2	(D)	-	-	-	-
Region 10 Missouri	5,017	718,216	234	60,570	7	6,272	921	120,199	698	190,542	3,564	430,781
Region 11 Arkansas-White-Red	1,680	279,720	276	62,198	-	-	1,273	230,831	284	21,914	156	32,175
Region 12 Texas-Gulf	2,720	267,647	288	36,344	11	2,130	1,977	222,714	628	32,675	352	27,718
Region 13 Rio Grande	1,066	90,804	282	14,102	45	4,423	292	44,341	343	8,034	528	46,496
Region 14 Upper Colorado	3,417	428,570	133	23,415	11	385	134	8,215	666	124,835	2,637	295,600
Region 15 Lower Colorado	605	52,972	126	23,703	20	4,877	125	20,522	91	4,732	431	31,134
Region 16 Great Basin	2,463	244,330	170	14,393	55	5,658	603	63,447	386	74,694	1,732	129,408
Region 17 Pacific Northwest	7,676	667,604	276	36,313	109	8,479	1,435	131,617	1,626	181,190	5,024	381,557
Region 18 California	2,370	465,758	293	121,770	34	25,061	733	250,624	279	122,665	1,687	215,549
Region 19 Alaska	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Region 20 Hawaii	2	(D)	-	-	-	-	-	-	-	-	2	(D)

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Peanuts for nuts											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	1,605	371,634	106	20,650	67	12,623	1,342	329,190	379	51,821	23	2,889
2008 [2]	2,535	540,577	502	127,898	163	33,842	1,945	480,465	755	87,622	20	3,177
2013 DATA												
Alabama	29	5,344	-	-	4	20	10	2,856	21	2,490	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	14	6,726	-	-	-	-	14	6,726	-	-	5	2,050
California	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	77	23,997	11	2,596	12	4,996	77	23,997	2	(D)	-	-
Georgia	877	199,212	9	1,070	9	1,070	687	166,255	300	40,888	-	-
Hawaii	7	7	-	-	-	-	-	-	-	-	7	7
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	9	1,731	-	-	-	-	9	1,731	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	25	6,684	-	-	-	-	25	(D)	2	(D)	-	-
Missouri	3	240	-	-	-	-	3	240	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	10	3,235	-	-	-	-	6	2,475	4	760	-	-
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	41	4,541	6	330	6	330	15	(D)	26	3,355	9	(D)
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	78	10,231	11	1,347	12	1,707	78	10,231	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	70	12,181	-	-	-	-	60	10,165	17	2,196	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	358	97,053	69	15,307	24	4,500	358	97,053	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	7	452	-	-	-	-	-	-	7	412	2	(D)
Washington	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	1,101	245,727	26	3,996	31	6,416	849	204,170	373	50,941	11	832
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 08 Lower Mississippi	36	(D)	-	-	-	-	36	10,802	2	(D)	-	-
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	100	15,600	17	1,707	12	1,707	100	15,600	-	-	5	2,050
Region 12 Texas-Gulf	360	98,978	63	14,947	24	4,500	357	98,618	3	360	-	-
Region 13 Rio Grande	1	(D)	-	-	-	-	-	-	1	(D)	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	-	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	7	7	-	-	-	-	-	-	-	-	7	7

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All cotton											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	6,804	2,954,457	1,663	595,950	284	84,809	5,856	2,558,510	716	163,429	971	380,937
2008 [2]	6,612	3,123,664	1,514	728,494	405	277,388	5,451	2,716,176	983	302,625	911	488,954
2013 DATA												
Alabama	55	11,987	-	-	-	-	23	4,823	29	6,408	9	1,156
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	368	171,902	146	68,628	36	7,279	195	61,328	32	17,964	251	115,417
Arkansas	323	246,842	10	9,000	10	9,000	317	245,565	25	4,757	-	-
California	464	274,834	143	74,194	49	21,793	305	128,373	77	29,005	367	215,089
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	50	16,951	4	5,000	3	765	42	16,031	8	920	-	-
Georgia	1,037	362,308	60	11,185	30	4,990	894	306,435	399	70,929	4	(D)
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	8	286	-	-	-	-	8	286	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	45	13,478	35	9,100	-	-	45	13,478	-	-	1	(D)
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	67	35,673	-	-	-	-	57	31,348	12	4,615	3	210
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	259	124,596	1	(D)	1	(D)	214	116,690	54	7,906	-	-
Missouri	220	180,128	1	(D)	-	-	220	(D)	2	(D)	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	145	30,931	48	6,066	6	781	131	24,006	9	6,300	8	2,286
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	56	13,257	8	638	6	(D)	9	1,461	43	10,255	9	1,541
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	120	26,436	33	4,106	11	670	117	25,593	3	600	3	243
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	69	15,637	-	-	-	-	45	13,097	16	2,170	9	370
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	34	11,327	2	(D)	-	-	32	(D)	2	(D)	-	-
Texas	3,484	1,417,884	1,172	407,316	132	38,763	3,202	1,380,041	5	100	307	44,343
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	1,294	424,199	72	16,823	39	5,923	1,010	341,177	529	96,055	27	2,463
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	20	2,649	-	-	-	-	3	670	13	1,335	4	644
Region 07 Upper Mississippi	8	286	-	-	-	-	8	286	-	-	-	-
Region 08 Lower Mississippi	836	587,391	14	9,717	11	9,600	820	579,091	36	11,590	3	210
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	837	288,674	279	68,160	39	13,305	834	287,831	20	(D)	4	485
Region 12 Texas-Gulf	2,631	1,174,298	961	352,362	104	26,128	2,559	1,135,179	7	3,941	90	41,678
Region 13 Rio Grande	346	30,224	48	6,066	6	781	122	24,575	2	(D)	225	4,951
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	373	175,902	151	72,628	36	7,279	195	61,328	37	21,964	251	115,417
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California	459	270,834	138	70,194	49	21,793	305	128,373	72	25,005	367	215,089
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in vegetables											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	24,157	2,993,600	3,366	1,045,264	1,192	574,574	15,012	1,843,498	5,427	433,528	6,375	1,062,561
2008 [2]	16,899	3,084,879	4,169	1,422,855	1,746	843,358	7,940	1,789,349	6,395	617,239	4,258	941,493
2013 DATA												
Alabama	264	5,947	42	936	5	103	134	3,827	84	2,029	75	141
Alaska	71	453	1	(D)	-	-	50	427	9	8	21	(D)
Arizona	595	102,972	65	69,618	42	56,904	299	19,301	147	25,101	291	82,965
Arkansas	251	7,692	53	4,829	10	305	116	6,949	48	376	93	368
California	3,374	1,018,036	580	346,771	362	196,867	1,787	592,257	280	87,474	1,761	559,275
Colorado	351	91,613	82	41,410	59	28,281	224	71,189	71	9,947	124	13,954
Connecticut	269	1,460	36	269	8	160	183	729	72	671	36	105
Delaware	109	15,930	30	1,108	16	624	106	14,925	9	2,327	-	-
Florida	537	170,941	52	27,425	28	12,972	519	131,536	45	35,772	16	18,012
Georgia	558	94,985	28	33,435	8	2,850	417	77,961	200	12,786	59	5,409
Hawaii	334	6,788	24	(D)	14	42	31	2,312	17	497	309	4,861
Idaho	848	381,698	251	179,576	132	98,751	412	216,223	123	42,599	502	154,823
Illinois	331	26,683	56	6,414	-	-	233	26,005	58	781	75	130
Indiana	326	11,312	34	258	-	-	215	9,679	85	2,359	57	138
Iowa	226	1,691	31	168	-	-	127	1,383	59	240	40	68
Kansas	235	4,139	10	731	3	730	85	3,980	55	55	95	104
Kentucky	424	2,007	88	421	9	45	80	294	213	1,221	155	499
Louisiana	186	3,186	26	111	9	9	77	1,630	39	645	70	911
Maine	312	6,896	-	-	-	-	150	628	139	5,210	46	1,182
Maryland	337	14,678	78	2,326	15	320	150	8,671	157	5,552	58	868
Massachusetts	312	8,290	14	21	7	14	198	4,979	123	6,157	63	720
Michigan	954	80,931	132	7,989	8	464	751	67,207	229	17,416	45	631
Minnesota	460	46,410	12	10,622	-	-	435	42,885	29	2,440	5	1,605
Mississippi	188	371	-	-	-	-	104	297	6	24	78	50
Missouri	509	14,859	93	1,373	26	183	268	14,150	206	589	50	120
Montana	366	5,269	5	40	5	40	310	3,816	19	(D)	139	3,943
Nebraska	233	10,172	1	(D)	1	(D)	224	10,131	-	-	9	41
Nevada	103	8,632	1	(D)	1	(D)	50	6,442	3	1,200	63	2,990
New Hampshire	210	2,580	11	11	8	56	126	675	90	839	29	1,304
New Jersey	535	31,606	82	7,183	20	4,463	420	23,508	153	12,969	56	916
New Mexico	1,049	23,508	46	4,671	21	5,105	633	8,774	338	12,721	345	4,158
New York	686	25,878	72	1,263	10	335	363	13,994	271	10,422	83	2,289
North Carolina	760	17,507	53	5,538	26	3,460	422	5,911	338	11,791	7	(D)
North Dakota	65	29,283	23	8,537	5	750	47	26,130	1	(D)	19	3,153
Ohio	550	19,415	110	1,491	26	250	268	12,541	209	6,533	122	582
Oklahoma	274	3,617	30	(D)	1	(D)	171	2,453	60	780	73	414
Oregon	916	122,258	41	24,249	29	22,179	626	50,873	121	24,552	402	56,647
Pennsylvania	1,512	11,474	425	2,119	78	463	1,171	6,260	407	4,504	61	872
Rhode Island	109	442	-	-	-	-	80	122	26	314	14	12
South Carolina	321	15,032	101	6,762	23	3,645	171	9,381	48	6,001	106	350
South Dakota	82	233	-	-	-	-	56	211	-	-	26	22
Tennessee	284	6,955	57	2,543	15	1,271	155	3,710	85	2,007	64	1,281
Texas	943	63,021	57	17,706	35	12,591	722	52,191	69	5,046	213	7,944
Utah	204	3,845	103	10	2	(D)	36	256	111	753	65	3,476
Vermont	204	1,306	11	33	-	-	72	153	102	1,001	45	183
Virginia	353	7,432	68	350	9	106	260	1,596	86	5,830	7	6
Washington	1,271	269,346	147	120,114	115	108,053	803	95,087	264	59,863	267	123,517
West Virginia	95	424	4	4	-	-	45	110	33	158	17	156
Wisconsin	643	193,310	100	95,815	1	(D)	617	189,735	86	3,747	8	271
Wyoming	28	1,088	-	-	-	-	13	16	4	4	11	1,068
Water Resources Regions												
Region 01 New England	1,255	19,897	61	301	23	230	758	7,150	479	13,408	188	3,322
Region 02 Mid-Atlantic	3,057	94,872	692	13,173	125	5,847	2,247	62,676	867	37,414	202	2,746
Region 03 South Atlantic-Gulf	2,483	303,638	275	73,991	96	23,133	1,722	228,808	635	67,373	326	23,956
Region 04 Great Lakes	1,838	144,719	241	34,848	16	899	1,247	119,309	533	27,307	209	3,545
Region 05 Ohio	1,279	27,432	253	1,263	49	229	518	20,539	545	5,881	324	1,180
Region 06 Tennessee	397	4,868	47	2,483	8	1,134	166	655	188	3,052	56	1,179
Region 07 Upper Mississippi	1,484	214,082	152	81,201	1	(D)	1,230	207,822	221	6,328	100	(D)
Region 08 Lower Mississippi	306	26,389	53	5,814	16	437	184	24,795	26	652	96	942
Region 09 Souris-Red-Rainy	81	23,151	6	(D)	-	-	52	21,525	22	420	11	1,686
Region 10 Missouri	1,082	59,791	136	26,336	53	10,589	768	44,014	168	8,667	181	9,687
Region 11 Arkansas-White-Red	862	21,663	81	2,289	9	1,935	408	18,937	243	1,315	248	1,942
Region 12 Texas-Gulf	909	50,049	57	17,706	41	13,311	701	38,759	64	5,510	205	7,940
Region 13 Rio Grande	901	68,694	63	29,295	52	24,857	708	64,886	157	3,630	315	4,079
Region 14 Upper Colorado	424	20,434	31	(D)	1	(D)	132	377	199	10,485	139	10,594
Region 15 Lower Colorado	476	102,685	65	69,618	42	56,904	192	19,134	147	25,101	279	82,845
Region 16 Great Basin	318	27,034	105	(D)	3	(D)	85	7,766	114	1,953	146	19,955
Region 17 Pacific Northwest	3,183	752,220	438	321,057	278	228,123	1,997	358,793	512	126,254	1,246	318,388
Region 18 California	3,417	1,024,741	585	348,471	365	197,767	1,816	594,813	281	88,274	1,774	562,624
Region 19 Alaska	71	453	1	(D)	-	-	50	427	9	8	21	(D)
Region 20 Hawaii	334	6,788	24	(D)	14	42	31	2,312	17	497	309	4,861

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sweet corn											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	5,923	321,992	582	101,058	151	30,281	3,335	198,173	1,704	54,934	1,283	83,306
2008 [2]	4,341	294,855	536	124,220	176	51,662	1,768	156,598	1,990	77,133	724	78,340
2013 DATA												
Alabama	81	633	1	(D)	-	-	31	481	34	140	24	12
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	385	1,382	1	(D)	2	(D)	117	288	118	236	151	898
Arkansas	43	2,944	-	-	-	-	7	2,800	-	-	36	144
California	113	28,420	60	10,629	14	1,400	75	10,521	-	-	57	17,998
Colorado	61	4,619	1	(D)	-	-	8	16	20	600	53	4,603
Connecticut	21	74	-	-	-	-	14	11	7	63	-	-
Delaware	40	7,563	5	322	-	-	36	5,985	7	1,578	-	-
Florida	40	22,286	1	(D)	-	-	35	13,537	5	10,178	4	2,921
Georgia	139	16,980	-	-	-	-	120	16,903	55	(D)	5	25
Hawaii	8	(D)	1	(D)	-	-	1	(D)	1	(D)	7	6
Idaho	173	10,232	27	1,438	19	(D)	40	2,913	22	2,312	139	7,388
Illinois	105	7,087	9	1,605	-	-	70	6,589	30	696	24	14
Indiana	95	1,114	-	-	-	-	67	1,103	25	158	5	3
Iowa	53	406	-	-	-	-	31	322	11	76	11	8
Kansas	111	606	-	-	-	-	55	550	-	-	56	56
Kentucky	89	294	7	11	-	-	18	15	48	257	33	23
Louisiana	21	7	-	-	-	-	3	3	-	-	18	4
Maine	64	451	-	-	-	-	36	109	37	440	9	2
Maryland	109	4,880	17	1,166	8	358	59	2,990	56	1,834	3	60
Massachusetts	144	3,089	-	-	-	-	58	1,091	88	1,924	13	176
Michigan	266	7,998	32	2,144	6	42	244	7,668	26	538	-	-
Minnesota	149	9,195	-	-	-	-	149	9,045	-	-	3	150
Mississippi	80	56	-	-	-	-	44	20	-	-	36	36
Missouri	192	314	14	36	-	-	96	249	85	(D)	11	4
Montana	54	132	5	40	5	40	15	5	5	2	34	126
Nebraska	31	2,628	-	-	-	-	31	2,628	-	-	-	-
Nevada	10	600	-	-	-	-	-	-	-	-	10	600
New Hampshire	57	1,081	-	-	-	-	24	244	25	197	8	640
New Jersey	171	3,695	13	336	2	(D)	98	2,269	69	1,946	23	96
New Mexico	200	316	2	(D)	2	(D)	26	33	131	197	43	86
New York	241	7,317	2	(D)	2	(D)	115	1,607	103	5,395	38	501
North Carolina	167	1,859	20	177	14	168	47	81	120	1,778	-	-
North Dakota	26	14	7	11	-	-	19	13	-	-	7	1
Ohio	134	6,748	9	136	2	(D)	56	4,780	68	1,963	15	6
Oklahoma	3	285	-	-	-	-	-	-	-	-	3	285
Oregon	645	34,173	15	2,432	13	(D)	460	19,072	47	7,105	207	12,969
Pennsylvania	371	2,412	30	81	14	84	259	1,366	119	929	24	134
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	122	1,741	58	(D)	12	17	64	(D)	10	(D)	48	19
South Dakota	46	35	-	-	-	-	37	33	-	-	9	2
Tennessee	111	797	20	97	7	14	55	(D)	35	118	27	31
Texas	182	189	-	-	-	-	174	181	8	8	-	-
Utah	120	612	103	72	-	-	8	24	111	(D)	9	(D)
Vermont	62	125	-	-	-	-	10	1	59	124	-	-
Virginia	69	404	-	-	-	-	33	79	36	325	-	-
Washington	182	68,424	70	42,467	28	24,516	82	24,942	36	10,987	69	32,496
West Virginia	28	(D)	-	-	-	-	10	(D)	9	4	9	9
Wisconsin	305	57,457	52	34,327	1	(D)	294	56,520	38	953	2	(D)
Wyoming	4	(Z)	-	-	-	-	4	(Z)	-	-	-	-
Water Resources Regions												
Region 01 New England	307	4,716	-	-	-	-	142	1,456	175	2,646	30	818
Region 02 Mid-Atlantic	877	24,835	62	1,894	24	542	533	13,930	348	11,391	61	242
Region 03 South Atlantic-Gulf	549	43,462	80	3,261	26	185	335	31,160	150	13,665	117	3,013
Region 04 Great Lakes	583	27,713	53	13,029	8	(D)	425	24,892	159	2,645	45	742
Region 05 Ohio	315	8,337	23	152	2	(D)	131	6,401	140	1,822	66	127
Region 06 Tennessee	173	187	10	76	7	14	57	39	103	185	19	23
Region 07 Upper Mississippi	542	55,840	47	25,187	1	(D)	443	55,131	83	909	32	164
Region 08 Lower Mississippi	44	3,498	1	(D)	-	-	21	3,493	5	1	18	4
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	256	2,987	22	(D)	-	-	179	2,925	42	50	35	13
Region 11 Arkansas-White-Red	176	1,059	-	-	-	-	76	567	5	8	95	485
Region 12 Texas-Gulf	182	(D)	-	-	-	-	174	(D)	8	8	-	-
Region 13 Rio Grande	69	119	2	(D)	2	(D)	26	33	-	-	43	86
Region 14 Upper Colorado	310	5,147	-	-	-	-	114	228	151	797	65	4,723
Region 15 Lower Colorado	259	1,034	1	(D)	2	(D)	3	60	118	236	139	778
Region 16 Great Basin	131	1,214	103	72	-	-	9	(D)	111	(D)	20	1,118
Region 17 Pacific Northwest	1,027	112,706	115	46,137	65	27,266	591	46,927	105	20,403	432	52,727
Region 18 California	115	28,660	62	10,869	14	1,400	75	10,521	-	-	59	18,238
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	8	(D)	1	(D)	-	-	1	(D)	1	(D)	7	6

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Tomatoes											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	10,496	358,985	1,487	154,006	380	101,448	6,929	193,759	1,990	36,394	2,172	187,987
2008 [2]	5,937	305,565	1,333	156,256	654	79,990	2,584	190,580	2,323	75,905	1,401	143,649
2013 DATA												
Alabama	133	1,611	29	498	7	213	53	135	46	1,458	54	59
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	133	67	-	-	-	-	133	67	-	-	-	-
Arkansas	97	1,430	5	1	5	1	80	1,420	12	8	11	2
California	1,036	283,287	246	119,546	154	81,060	794	138,473	51	15,892	366	184,104
Colorado	115	104	6	1	-	-	83	89	-	-	38	16
Connecticut	174	139	24	58	2	(D)	133	87	47	63	15	(D)
Delaware	29	16	2	(D)	-	-	29	16	-	-	-	-
Florida	171	47,439	28	25,318	27	15,953	164	41,544	8	8,102	3	375
Georgia	143	2,093	10	990	1	(D)	120	599	59	1,505	7	(D)
Hawaii	46	(D)	-	-	-	-	5	1	7	1	41	(D)
Idaho	25	18	-	-	-	-	8	1	-	-	17	17
Illinois	190	217	29	37	-	-	120	160	17	26	53	31
Indiana	150	2,993	22	43	-	-	86	2,626	45	901	33	32
Iowa	98	35	11	4	-	-	57	21	17	4	24	9
Kansas	110	70	7	1	-	-	16	5	55	55	39	10
Kentucky	256	501	71	71	9	28	50	30	110	179	106	298
Louisiana	79	(D)	26	111	9	9	27	45	-	-	52	(D)
Maine	94	53	11	10	-	-	53	34	15	9	26	10
Maryland	177	224	41	73	11	30	78	79	81	128	23	19
Massachusetts	243	447	35	141	7	(D)	148	162	81	246	43	71
Michigan	396	1,429	59	530	6	18	306	1,308	56	108	34	13
Minnesota	106	62	-	-	-	-	81	41	25	21	-	-
Mississippi	125	122	-	-	-	-	84	95	6	24	35	4
Missouri	328	214	84	63	17	17	148	96	147	96	33	22
Montana	122	30	5	1	-	-	108	28	-	-	97	26
Nebraska	165	54	-	-	-	-	165	54	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	134	256	18	19	-	-	52	150	71	98	19	120
New Jersey	315	1,254	80	697	9	252	234	812	60	573	37	78
New Mexico	640	211	2	(D)	2	(D)	438	152	61	45	141	14
New York	344	816	79	225	2	(D)	197	381	130	367	49	177
North Carolina	397	2,503	19	1,237	6	1,080	264	358	133	2,146	-	-
North Dakota	26	6	-	-	-	-	13	3	-	-	13	4
Ohio	289	2,358	67	424	13	16	170	1,135	101	1,364	38	58
Oklahoma	90	69	-	-	-	-	49	23	30	30	41	47
Oregon	466	196	-	-	-	-	210	139	11	2	245	55
Pennsylvania	892	1,202	209	370	48	162	694	793	188	210	37	(D)
Rhode Island	72	33	-	-	-	-	51	28	21	5	-	-
South Carolina	198	2,864	80	1,560	23	1,214	117	1,674	24	1,177	58	13
South Dakota	35	6	-	-	-	-	17	2	-	-	18	5
Tennessee	197	2,390	43	1,850	15	1,267	121	265	44	947	46	1,192
Texas	563	299	6	42	-	-	374	270	8	2	181	28
Utah	146	92	103	41	-	-	29	48	103	41	22	4
Vermont	44	9	-	-	-	-	13	2	36	7	2	(D)
Virginia	185	708	18	23	7	11	134	163	44	542	7	4
Washington	469	112	6	6	-	-	401	53	17	3	56	61
West Virginia	39	26	4	4	-	-	19	13	18	11	6	6
Wisconsin	206	85	2	(D)	-	-	195	84	5	1	6	1
Wyoming	8	1	-	-	-	-	8	1	-	-	-	-
Water Resources Regions												
Region 01 New England	743	932	88	227	9	32	450	463	255	423	103	206
Region 02 Mid-Atlantic	1,639	3,626	345	1,202	65	440	1,229	2,033	372	1,563	108	311
Region 03 South Atlantic-Gulf	1,129	55,621	156	29,422	68	18,507	791	44,397	257	13,408	149	454
Region 04 Great Lakes	743	3,749	136	1,015	10	67	487	2,248	180	1,548	98	193
Region 05 Ohio	722	1,794	193	273	31	54	288	700	286	683	188	443
Region 06 Tennessee	216	3,242	41	1,885	8	1,130	120	138	65	1,982	37	1,124
Region 07 Upper Mississippi	580	2,806	35	42	-	-	418	2,668	101	638	65	61
Region 08 Lower Mississippi	156	1,712	28	239	11	137	92	1,598	5	1	59	114
Region 09 Souris-Red-Rainy	45	26	-	-	-	-	19	4	20	20	6	2
Region 10 Missouri	589	284	79	61	17	17	397	207	89	49	103	28
Region 11 Arkansas-White-Red	356	(D)	12	2	5	(D)	154	75	153	105	85	(D)
Region 12 Texas-Gulf	540	293	6	42	-	-	367	269	-	-	173	24
Region 13 Rio Grande	587	202	2	(D)	2	(D)	438	152	18	36	131	13
Region 14 Upper Colorado	32	15	6	(D)	-	-	6	1	-	-	32	15
Region 15 Lower Colorado	140	74	-	-	-	-	140	74	-	-	-	-
Region 16 Great Basin	139	85	103	41	-	-	22	41	103	41	22	4
Region 17 Pacific Northwest	1,052	343	11	7	-	-	712	219	28	6	400	149
Region 18 California	1,042	283,296	246	119,546	154	81,060	794	138,473	51	15,892	372	184,113
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	46	(D)	-	-	-	-	5	1	7	1	41	(D)

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Lettuce and romaine											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	5,052	264,154	373	96,254	60	43,498	3,306	151,658	768	8,094	1,158	109,915
2008 [2]	2,203	255,880	275	120,864	180	80,968	1,050	146,038	923	34,835	335	98,559
2013 DATA												
Alabama	15	33	-	-	-	-	8	32	-	-	7	1
Alaska	19	25	-	-	-	-	10	(D)	-	-	9	(D)
Arizona	161	47,344	22	40,177	9	23,432	137	1,376	5	2,092	21	43,976
Arkansas	12	8	-	-	-	-	6	2	-	-	6	6
California	261	197,716	71	52,912	16	17,454	185	141,450	9	(D)	91	58,344
Colorado	53	6,814	10	321	-	-	22	5,208	17	1,603	24	4
Connecticut	133	70	7	7	-	-	88	45	38	24	7	1
Delaware	19	6	-	-	-	-	19	6	-	-	-	-
Florida	125	7,913	3	2,400	3	2,400	109	1,126	15	(D)	7	6,778
Georgia	42	24	-	-	-	-	28	22	14	1	-	-
Hawaii	70	175	1	(D)	-	-	14	12	8	(D)	56	(D)
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	97	73	-	-	-	-	57	60	17	2	23	12
Indiana	31	55	-	-	-	-	10	51	10	1	16	4
Iowa	41	7	6	1	-	-	23	4	-	-	18	3
Kansas	8	1	-	-	-	-	-	-	-	-	8	1
Kentucky	52	15	5	1	-	-	22	7	10	1	30	9
Louisiana	35	4	-	-	-	-	-	-	-	-	35	4
Maine	96	86	17	10	-	-	53	68	25	11	26	10
Maryland	78	19	6	1	-	-	46	12	11	2	26	10
Massachusetts	159	361	7	4	7	4	78	93	59	193	29	78
Michigan	209	90	45	30	-	-	180	66	23	23	6	1
Minnesota	76	12	-	-	-	-	76	12	-	-	-	-
Mississippi	84	18	-	-	-	-	49	14	-	-	35	4
Missouri	65	18	7	7	7	7	48	11	5	1	19	(D)
Montana	44	7	-	-	-	-	20	3	5	1	19	4
Nebraska	25	(D)	-	-	-	-	25	(D)	-	-	-	-
Nevada	18	9	-	-	-	-	18	9	-	-	-	-
New Hampshire	104	33	8	4	-	-	34	7	59	18	11	8
New Jersey	113	876	18	144	3	(D)	88	864	13	36	20	10
New Mexico	207	254	-	-	-	-	146	196	61	58	1	(D)
New York	170	531	12	12	-	-	100	94	52	337	22	(D)
North Carolina	195	274	17	77	-	-	168	187	26	87	7	1
North Dakota	19	(D)	-	-	-	-	6	(D)	-	-	13	3
Ohio	111	193	13	(D)	-	-	41	11	46	174	38	12
Oklahoma	50	24	-	-	-	-	39	11	-	-	11	13
Oregon	415	190	-	-	-	-	183	25	5	3	227	163
Pennsylvania	241	348	16	15	7	21	186	294	67	57	18	5
Rhode Island	57	27	-	-	-	-	40	18	17	9	-	-
South Carolina	74	27	50	23	-	-	67	13	7	14	-	-
South Dakota	18	3	-	-	-	-	9	1	-	-	9	2
Tennessee	72	33	15	13	-	-	42	17	22	8	13	9
Texas	354	86	-	-	8	(D)	181	52	-	-	173	34
Utah	21	8	-	-	-	-	14	8	-	-	7	1
Vermont	110	97	-	-	-	-	48	12	59	85	18	5
Virginia	103	88	-	-	-	-	65	41	31	46	7	1
Washington	493	117	12	7	-	-	436	65	17	11	45	45
West Virginia	19	12	-	-	-	-	4	1	15	10	-	-
Wisconsin	74	23	5	(D)	-	-	74	23	-	-	-	-
Wyoming	4	1	-	-	-	-	4	1	-	-	-	-
Water Resources Regions												
Region 01 New England	584	610	39	24	7	4	306	233	227	286	73	97
Region 02 Mid-Atlantic	584	1,488	52	172	10	201	420	1,284	137	222	74	29
Region 03 South Atlantic-Gulf	524	8,289	70	2,500	3	2,400	411	1,388	69	(D)	56	6,783
Region 04 Great Lakes	403	671	51	65	-	-	269	86	91	482	55	107
Region 05 Ohio	225	88	22	(D)	-	-	105	34	72	32	73	27
Region 06 Tennessee	84	25	5	1	-	-	54	20	23	4	12	2
Region 07 Upper Mississippi	266	161	11	3	-	-	225	147	12	1	29	13
Region 08 Lower Mississippi	59	13	-	-	-	-	19	9	5	1	35	4
Region 09 Souris-Red-Rainy	6	2	-	-	-	-	-	-	-	-	6	2
Region 10 Missouri	152	1,829	11	327	7	7	84	213	14	1,602	65	(D)
Region 11 Arkansas-White-Red	126	47	-	-	-	-	66	19	43	9	17	19
Region 12 Texas-Gulf	354	86	-	-	8	1	181	52	-	-	173	34
Region 13 Rio Grande	169	5,245	-	-	-	-	151	5,196	18	50	1	(D)
Region 14 Upper Colorado	38	13	6	1	-	-	13	(D)	13	3	18	3
Region 15 Lower Colorado	161	47,344	22	40,177	9	23,432	137	1,376	5	2,092	21	43,976
Region 16 Great Basin	39	17	-	-	-	-	32	17	-	-	7	1
Region 17 Pacific Northwest	922	310	12	7	-	-	618	90	22	14	287	211
Region 18 California	267	197,717	71	52,912	16	17,454	191	141,451	9	(D)	91	58,344
Region 19 Alaska	19	25	-	-	-	-	10	(D)	-	-	9	(D)
Region 20 Hawaii	70	175	1	(D)	-	-	14	12	8	(D)	56	(D)

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Potatoes, excluding sweet potatoes											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	5,596	903,297	864	446,114	492	256,388	3,727	592,169	1,054	100,654	1,406	282,442
2008 [2]	3,727	974,606	981	579,985	628	412,045	1,752	607,779	1,536	131,500	861	259,898
2013 DATA												
Alabama	35	28	4	4	-	-	11	14	20	10	16	8
Alaska	32	204	-	-	-	-	23	199	2	(D)	9	5
Arizona	139	3,303	1	(D)	-	-	137	(D)	1	(D)	1	(D)
Arkansas	42	7	-	-	-	-	42	7	-	-	-	-
California	163	63,101	84	31,260	60	22,291	104	(D)	8	4	111	49,161
Colorado	119	50,340	57	37,874	44	28,105	81	49,304	27	885	29	1,907
Connecticut	73	(D)	7	7	-	-	58	(D)	15	13	-	-
Delaware	25	1,070	-	-	-	-	25	(D)	2	(D)	-	-
Florida	53	22,742	10	2,802	2	(D)	53	20,652	23	6,534	-	-
Georgia	47	31,217	3	27,900	3	2,400	26	26,085	21	3	3	5,130
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	586	345,444	269	177,162	151	96,866	336	205,829	87	30,532	326	133,955
Illinois	85	5,428	3	(D)	-	-	56	5,405	6	1	23	23
Indiana	44	835	6	(D)	-	-	34	832	5	1	5	3
Iowa	66	618	6	1	-	-	42	609	6	3	18	6
Kansas	13	1,271	1	(D)	1	(D)	5	1,270	-	-	8	1
Kentucky	76	42	5	1	-	-	40	30	19	5	22	7
Louisiana	36	56	-	-	-	-	18	36	-	-	18	20
Maine	98	3,634	8	8	-	-	34	(D)	46	(D)	27	(D)
Maryland	113	626	8	1	-	-	42	217	45	393	26	16
Massachusetts	100	140	-	-	-	-	43	33	51	108	14	8
Michigan	340	33,727	33	2,153	2	(D)	234	27,338	102	8,063	24	109
Minnesota	134	24,604	4	(D)	-	-	129	23,903	7	401	2	(D)
Mississippi	49	100	-	-	-	-	49	100	-	-	-	-
Missouri	96	10,642	12	9	7	7	42	10,630	53	7	13	13
Montana	160	3,601	2	(D)	2	(D)	119	2,564	9	7	119	2,512
Nebraska	19	(D)	1	(D)	1	(D)	19	(D)	-	-	-	-
Nevada	19	(D)	1	(D)	1	(D)	19	(D)	-	-	-	-
New Hampshire	55	9	8	2	-	-	19	5	35	6	3	(Z)
New Jersey	99	1,147	8	120	2	(D)	73	981	16	639	20	12
New Mexico	168	(D)	3	(D)	3	(D)	157	76	10	(D)	1	(D)
New York	165	3,848	6	12	6	12	101	2,451	53	1,660	22	274
North Carolina	77	24	6	3	-	-	50	20	20	3	7	1
North Dakota	64	28,234	22	7,602	5	750	46	25,090	1	(D)	19	3,145
Ohio	89	883	9	3	-	-	30	841	50	39	9	3
Oklahoma	110	480	30	(D)	30	(D)	40	(D)	30	(D)	70	72
Oregon	482	35,502	30	8,831	20	6,432	212	10,523	26	11,023	257	15,561
Pennsylvania	324	1,104	56	134	29	94	246	214	76	885	8	9
Rhode Island	30	(D)	-	-	-	-	25	8	5	(D)	-	-
South Carolina	28	38	-	-	5	5	23	33	-	-	5	5
South Dakota	52	12	-	-	-	-	34	3	-	-	18	9
Tennessee	38	18	8	4	-	-	30	14	-	-	8	4
Texas	26	9,064	1	(D)	-	-	17	(D)	8	2	1	(D)
Utah	24	821	-	-	2	(D)	14	8	-	-	10	814
Vermont	66	66	-	-	-	-	30	5	43	62	-	-
Virginia	71	2,070	-	-	-	-	45	328	27	1,741	7	1
Washington	592	136,150	114	83,167	115	83,959	452	47,940	62	26,157	124	64,709
West Virginia	27	13	-	-	-	-	15	7	9	5	3	1
Wisconsin	243	65,708	38	39,966	1	(D)	243	63,964	28	1,746	-	-
Wyoming	4	(Z)	-	-	-	-	4	(Z)	-	-	-	-
Water Resources Regions												
Region 01 New England	377	4,057	23	17	-	-	189	100	170	(D)	44	(D)
Region 02 Mid-Atlantic	680	9,230	78	267	37	214	478	(D)	165	4,873	66	237
Region 03 South Atlantic-Gulf	258	54,131	19	30,705	10	4,005	185	46,886	77	6,549	34	5,145
Region 04 Great Lakes	546	45,802	49	6,356	2	(D)	351	37,961	200	9,449	41	178
Region 05 Ohio	241	1,551	23	(D)	-	-	124	1,502	82	29	40	21
Region 06 Tennessee	55	24	4	4	-	-	44	22	15	2	4	(Z)
Region 07 Upper Mississippi	445	76,604	37	41,972	1	(D)	393	(D)	19	(D)	35	26
Region 08 Lower Mississippi	47	10,545	-	-	-	-	47	10,545	-	-	-	-
Region 09 Souris-Red-Rainy	43	22,434	5	(D)	-	-	34	20,832	2	(D)	11	1,682
Region 10 Missouri	268	30,887	40	20,603	16	6,689	146	27,590	58	(D)	77	4,731
Region 11 Arkansas-White-Red	201	9,903	31	(D)	31	(D)	105	9,810	43	33	88	92
Region 12 Texas-Gulf	9	(D)	1	(D)	-	-	8	(D)	-	-	1	(D)
Region 13 Rio Grande	236	42,095	48	29,544	45	26,976	227	41,048	16	902	5	1,900
Region 14 Upper Colorado	161	(D)	7	(D)	1	(D)	120	35	21	(D)	26	(D)
Region 15 Lower Colorado	25	3,269	1	(D)	-	-	23	(D)	1	(D)	1	(D)
Region 16 Great Basin	64	19,111	10	8,019	3	(D)	38	5,436	-	-	31	13,675
Region 17 Pacific Northwest	1,719	496,831	399	263,860	283	186,357	1,070	260,783	174	66,912	775	198,309
Region 18 California	189	69,551	89	32,960	63	23,191	122	48,160	9	(D)	118	52,261
Region 19 Alaska	32	204	-	-	-	-	23	199	2	(D)	9	5
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All berries											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	12,763	227,651	2,307	68,040	1,040	41,018	7,830	126,613	3,480	87,666	2,514	24,769
2008 [2]	9,021	222,857	1,207	88,816	781	62,635	4,575	159,134	3,810	71,597	955	11,992
2013 DATA												
Alabama	187	519	38	145	2	(D)	109	338	49	152	29	28
Alaska	12	5	-	-	-	-	10	5	6	1	2	(D)
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	86	587	-	-	-	-	64	484	12	65	16	39
California	1,280	33,443	142	17,021	87	10,719	745	32,976	8	4	528	703
Colorado	214	102	6	1	-	-	6	1	183	92	25	9
Connecticut	89	234	1	(D)	-	-	59	71	15	130	15	33
Delaware	22	37	-	-	-	-	12	22	-	-	10	15
Florida	578	12,478	136	6,274	93	2,553	507	11,831	89	1,507	-	-
Georgia	582	20,805	129	11,172	36	288	479	18,054	191	4,467	36	36
Hawaii	17	54	2	(D)	2	(D)	-	-	-	-	17	54
Idaho	16	5	-	-	-	-	8	1	-	-	8	4
Illinois	104	322	17	108	-	-	75	310	18	7	11	6
Indiana	140	360	-	-	-	-	60	282	58	51	22	27
Iowa	108	411	10	23	-	-	72	303	24	50	18	65
Kansas	85	93	14	21	7	14	15	23	55	55	22	22
Kentucky	196	284	41	70	9	41	25	4	79	213	97	67
Louisiana	62	147	26	111	9	9	27	36	18	9	17	102
Maine	108	7,401	6	27	39	168	53	5,531	58	1,924	-	-
Maryland	137	387	26	111	5	4	67	116	49	289	29	14
Massachusetts	593	14,973	271	1,989	245	7,138	251	2,097	398	13,587	7	293
Michigan	768	24,668	58	2,345	2	(D)	639	15,109	196	11,629	-	-
Minnesota	194	455	-	-	-	-	167	310	27	145	-	-
Mississippi	160	3,584	48	2,040	-	-	124	1,964	36	1,620	-	-
Missouri	161	209	5	3	-	-	140	183	21	26	-	-
Montana	269	62	-	-	-	-	259	61	5	1	88	25
Nebraska	8	1	-	-	-	-	8	1	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	112	232	10	(D)	2	(D)	50	76	64	155	6	2
New Jersey	242	12,774	36	2,750	18	2,346	183	8,399	61	4,629	16	512
New Mexico	455	160	1	(D)	-	-	411	146	174	74	132	71
New York	252	1,255	24	82	4	98	174	368	65	633	22	268
North Carolina	392	4,570	213	2,750	26	2,424	219	602	180	4,148	7	2
North Dakota	7	4	7	4	-	-	7	4	-	-	-	-
Ohio	264	633	40	140	4	42	95	239	107	274	77	181
Oklahoma	99	108	-	-	-	-	99	108	-	-	-	-
Oregon	1,522	26,800	395	11,414	174	8,003	811	12,711	156	7,788	709	7,150
Pennsylvania	365	675	100	180	14	44	216	334	154	319	29	44
Rhode Island	45	207	-	-	3	(D)	22	15	11	186	12	6
South Carolina	162	676	85	574	14	126	132	411	23	153	51	134
South Dakota	46	70	-	-	-	-	28	68	-	-	18	2
Tennessee	94	270	12	97	7	52	63	148	28	138	11	15
Texas	196	1,172	166	1,162	-	-	22	6	166	1,162	8	4
Utah	185	358	11	76	-	-	7	1	-	-	178	357
Vermont	107	305	11	85	-	-	22	82	82	211	6	15
Virginia	180	464	-	-	-	-	124	263	57	208	7	(D)
Washington	1,125	24,301	151	5,558	222	5,459	785	9,050	200	7,123	158	8,606
West Virginia	42	49	-	-	-	-	25	28	12	5	10	16
Wisconsin	674	30,680	69	1,675	3	536	350	3,445	332	24,179	56	5,840
Wyoming	21	263	-	-	13	195	4	1	13	260	4	2
Water Resources Regions												
Region 01 New England	971	23,144	299	2,115	289	7,347	441	7,814	564	16,054	40	334
Region 02 Mid-Atlantic	981	14,823	143	3,012	35	2,364	694	9,364	274	5,697	87	593
Region 03 South Atlantic-Gulf	2,007	42,515	645	22,947	171	5,393	1,531	33,068	565	12,074	111	189
Region 04 Great Lakes	1,267	27,093	139	2,807	8	810	872	15,791	418	13,305	79	366
Region 05 Ohio	623	1,426	82	280	13	101	209	744	280	583	158	200
Region 06 Tennessee	139	317	14	93	7	52	84	188	32	111	29	19
Region 07 Upper Mississippi	842	30,191	58	1,389	3	536	514	3,663	299	23,138	67	5,881
Region 08 Lower Mississippi	104	328	27	118	9	(D)	75	185	5	2	24	141
Region 09 Souris-Red-Rainy	25	50	-	-	-	-	5	10	20	40	-	-
Region 10 Missouri	361	576	26	28	20	209	261	242	45	292	68	56
Region 11 Arkansas-White-Red	313	751	-	-	-	-	173	601	128	137	18	13
Region 12 Texas-Gulf	188	1,168	166	1,162	-	-	22	6	166	1,162	-	-
Region 13 Rio Grande	411	146	-	-	-	-	411	146	131	66	131	66
Region 14 Upper Colorado	203	105	7	(D)	-	-	6	1	183	92	14	(D)
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	185	358	11	76	-	-	7	1	-	-	178	357
Region 17 Pacific Northwest	2,828	51,156	546	16,971	396	13,462	1,764	21,810	356	14,910	963	15,785
Region 18 California	1,286	33,444	142	17,021	87	10,719	751	32,977	8	4	528	703
Region 19 Alaska	12	5	-	-	-	-	10	5	6	1	2	(D)
Region 20 Hawaii	17	54	2	(D)	2	(D)	-	-	-	-	17	54

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Land in bearing and non-bearing orchards, vineyards, and nut trees											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	52,018	3,662,131	8,646	1,457,326	2,795	573,598	29,106	2,446,547	3,747	307,541	26,282	1,463,421
2008 [2]	57,184	3,733,339	16,839	1,940,094	7,773	596,354	30,196	2,417,543	9,778	602,304	22,521	1,128,498
2013 DATA												
Alabama	172	2,701	6	108	8	1	115	719	29	1,821	36	190
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,042	24,800	192	2,918	11	252	486	20,901	2	(D)	668	(D)
Arkansas	71	1,498	-	-	-	-	61	1,351	22	195	-	-
California	31,859	2,576,601	6,988	1,174,399	1,993	447,603	17,599	1,773,354	1,576	163,753	18,388	1,147,345
Colorado	870	2,184	-	-	183	1,281	19	6	195	164	662	2,015
Connecticut	39	97	-	-	-	-	39	97	-	-	-	-
Delaware	19	321	-	-	-	-	19	321	-	-	-	-
Florida	3,132	491,029	400	184,378	271	105,233	2,892	391,948	159	72,758	234	46,729
Georgia	534	100,609	40	12,491	16	7,375	488	93,667	108	7,738	-	-
Hawaii	688	4,720	17	306	-	-	51	(D)	17	364	639	3,075
Idaho	333	7,364	-	-	-	-	33	1,325	240	1,440	76	4,599
Illinois	41	104	-	-	-	-	18	97	12	2	11	6
Indiana	53	382	-	-	-	-	30	306	12	48	11	28
Iowa	57	267	6	6	6	6	29	236	17	15	17	22
Kansas	200	1,809	-	-	-	-	72	1,697	57	79	71	34
Kentucky	108	124	7	7	-	-	25	7	38	64	45	54
Louisiana	142	1,197	27	126	27	126	79	972	27	27	36	198
Maine	59	144	-	-	-	-	48	115	2	(D)	9	(D)
Maryland	80	1,975	17	198	3	(Z)	33	325	30	1,654	20	10
Massachusetts	54	1,045	7	84	-	-	21	(D)	20	728	13	(D)
Michigan	416	18,525	28	1,485	-	-	406	18,470	15	255	-	-
Minnesota	93	147	-	-	-	-	88	139	5	8	-	-
Mississippi	22	1,204	-	-	-	-	22	1,204	-	-	-	-
Missouri	177	363	-	-	-	-	101	340	76	23	-	-
Montana	436	896	5	10	5	10	254	511	15	38	255	397
Nebraska	16	33	-	-	-	-	16	33	-	-	-	-
Nevada	51	1,203	-	-	-	-	38	637	3	6	10	560
New Hampshire	57	614	-	-	-	-	26	(D)	20	(D)	14	515
New Jersey	107	2,671	27	137	20	70	90	2,232	16	1,096	9	(D)
New Mexico	2,549	45,419	256	10,402	12	1,923	1,696	39,317	100	6,827	1,409	19,697
New York	214	6,938	24	831	8	66	100	2,824	62	2,743	60	1,371
North Carolina	170	1,205	14	70	-	-	147	464	23	741	-	-
North Dakota	7	21	-	-	-	-	-	-	-	-	7	21
Ohio	109	430	7	14	2	(D)	44	236	50	187	15	8
Oklahoma	252	2,100	30	30	-	-	173	725	69	775	10	600
Oregon	1,546	42,698	13	594	56	544	511	11,210	196	2,837	884	28,706
Pennsylvania	162	2,761	9	319	-	-	87	1,390	72	1,348	8	23
Rhode Island	17	60	4	3	4	3	3	3	10	54	4	3
South Carolina	73	10,453	-	-	-	-	68	(D)	6	(D)	-	-
South Dakota	11	21	-	-	-	-	11	21	-	-	-	-
Tennessee	86	619	15	41	7	(D)	32	56	28	514	28	70
Texas	2,048	48,095	218	20,397	-	-	1,253	27,368	173	87	673	20,640
Utah	619	6,347	12	2,357	1	(D)	8	(D)	-	-	612	(D)
Vermont	9	132	-	-	-	-	1	(D)	7	112	2	(D)
Virginia	96	1,142	-	-	-	-	66	(D)	23	(D)	7	7
Washington	2,984	248,175	277	45,616	162	8,971	1,583	46,594	205	28,718	1,336	177,441
West Virginia	21	35	-	-	-	-	8	14	10	19	3	2
Wisconsin	113	855	-	-	-	-	113	855	-	-	-	-
Wyoming	4	1	-	-	-	-	4	1	-	-	-	-
Water Resources Regions												
Region 01 New England	262	1,979	11	87	4	3	173	326	52	842	40	820
Region 02 Mid-Atlantic	537	13,215	61	704	23	(D)	342	7,395	177	6,477	35	46
Region 03 South Atlantic-Gulf	4,052	603,260	460	197,047	287	112,608	3,689	488,445	309	89,123	269	46,924
Region 04 Great Lakes	612	21,457	40	2,062	10	78	512	19,126	46	1,155	67	1,376
Region 05 Ohio	256	1,219	18	225	-	-	77	(D)	110	780	71	106
Region 06 Tennessee	106	3,092	-	-	8	1	60	(D)	33	2,737	22	(D)
Region 07 Upper Mississippi	358	1,321	6	6	6	6	270	1,277	66	22	22	22
Region 08 Lower Mississippi	203	3,650	42	(D)	34	147	131	3,382	34	(D)	50	(D)
Region 09 Souris-Red-Rainy	7	21	-	-	-	-	-	-	-	-	7	21
Region 10 Missouri	435	2,235	-	-	-	-	114	1,805	62	134	270	303
Region 11 Arkansas-White-Red	612	2,921	30	30	-	-	225	953	195	1,003	192	964
Region 12 Texas-Gulf	1,740	33,798	212	7,167	-	-	1,124	13,661	173	87	494	20,050
Region 13 Rio Grande	2,563	58,003	261	23,265	12	1,923	1,801	52,904	57	6,810	1,361	18,711
Region 14 Upper Colorado	708	3,060	1	(D)	183	1,281	6	1	189	92	519	2,968
Region 15 Lower Colorado	1,280	26,296	192	2,918	11	252	510	21,021	2	(D)	882	(D)
Region 16 Great Basin	456	6,174	12	2,357	1	(D)	46	1,138	3	6	408	5,036
Region 17 Pacific Northwest	5,275	298,690	292	45,800	223	9,525	2,370	59,635	646	33,020	2,543	210,717
Region 18 California	31,868	2,577,022	6,991	1,174,819	1,993	447,603	17,605	1,773,355	1,576	163,753	18,391	1,147,765
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	688	4,720	17	306	-	-	51	(D)	17	364	639	3,075

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All other crops (see text)											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	26,309	2,320,822	2,789	329,982	884	140,989	15,576	1,113,366	5,029	351,632	8,450	1,006,583
2008 [2]	6,761	1,487,387	864	338,294	490	182,141	2,984	605,386	2,040	188,144	2,284	742,710
2013 DATA												
Alabama	361	18,569	12	32	-	-	215	12,067	105	6,414	66	803
Alaska	37	132	-	-	-	-	26	55	11	69	8	16
Arizona	447	21,381	84	7,997	21	2,756	177	6,405	143	3,935	159	13,254
Arkansas	226	23,875	43	346	2	(D)	170	22,570	14	995	49	310
California	3,819	249,561	675	89,790	270	31,434	1,973	156,871	654	23,112	2,080	117,423
Colorado	1,070	59,113	52	3,851	13	2,537	454	49,039	114	3,882	698	11,161
Connecticut	273	2,817	22	52	15	31	222	1,098	50	2,088	26	253
Delaware	36	2,209	5	320	8	208	21	1,849	17	360	-	-
Florida	3,058	454,826	198	9,996	72	3,220	2,564	82,251	526	104,664	138	293,642
Georgia	456	25,058	38	2,056	9	407	387	17,510	66	8,390	35	558
Hawaii	700	28,431	22	(D)	7	(D)	33	(D)	69	2,371	616	25,622
Idaho	939	258,292	125	31,431	47	15,452	397	120,782	102	20,414	587	120,021
Illinois	346	23,969	29	6,818	-	-	242	21,508	86	3,175	41	125
Indiana	271	16,055	32	35	16	14	210	14,918	49	1,412	30	30
Iowa	127	2,983	34	955	7	829	68	2,619	39	323	26	56
Kansas	269	54,060	17	6,587	3	(D)	225	52,717	13	1,290	38	60
Kentucky	277	3,454	42	61	12	17	58	1,143	88	2,010	143	301
Louisiana	381	15,960	-	-	-	-	286	13,079	77	3,404	79	157
Maine	161	1,209	9	9	9	9	117	159	18	981	29	70
Maryland	181	9,457	28	229	8	206	141	7,965	40	807	10	691
Massachusetts	315	2,421	29	198	21	182	174	1,023	69	1,338	118	943
Michigan	710	32,235	60	403	6	18	523	24,917	171	13,035	102	2,060
Minnesota	244	30,904	26	135	1	(D)	192	(D)	43	14,658	37	7,052
Mississippi	261	6,002	2	(D)	2	(D)	108	(D)	55	3,251	112	310
Missouri	171	10,625	20	192	9	171	97	8,625	48	2,084	40	187
Montana	789	110,623	40	12,704	-	-	150	1,161	52	6,481	590	102,981
Nebraska	498	108,355	178	43,043	32	27,178	427	101,383	34	2,006	69	5,969
Nevada	42	8,081	7	975	-	-	37	5,790	-	-	5	2,291
New Hampshire	167	733	27	68	-	-	124	297	51	315	17	139
New Jersey	531	16,987	61	1,355	29	760	417	13,961	119	4,231	40	120
New Mexico	322	6,885	10	1,364	5	1,029	170	6,580	160	220	14	205
New York	601	8,067	76	291	8	66	360	6,469	132	1,126	151	524
North Carolina	753	22,087	42	873	20	784	417	(D)	303	14,215	101	4,027
North Dakota	90	18,074	2	(D)	-	-	14	824	17	1,330	59	15,920
Ohio	364	8,222	46	152	3	80	171	(D)	155	4,027	77	917
Oklahoma	174	28,284	58	2,030	17	620	86	25,044	25	1,668	73	2,198
Oregon	1,599	191,890	92	15,872	36	19,318	796	75,856	351	31,348	640	99,330
Pennsylvania	707	2,988	92	191	25	67	540	1,760	150	964	70	473
Rhode Island	119	2,230	11	11	-	-	58	308	26	1,759	38	166
South Carolina	283	21,683	28	201	8	8	210	18,155	85	4,028	35	1,214
South Dakota	66	9,550	4	140	-	-	26	1,711	12	614	38	7,825
Tennessee	245	7,682	15	638	4	14	99	3,608	108	3,912	65	276
Texas	1,198	147,889	147	22,120	50	4,775	904	111,187	156	9,796	261	34,805
Utah	279	5,903	22	85	-	-	50	2,773	4	264	227	2,866
Vermont	150	326	18	18	-	-	85	107	40	166	27	55
Virginia	552	10,535	47	514	15	92	415	3,584	119	6,755	40	254
Washington	963	173,493	109	38,781	63	24,650	535	62,870	122	26,509	367	88,769
West Virginia	87	421	7	7	-	-	43	336	31	72	13	13
Wisconsin	411	10,082	35	(D)	7	232	342	8,743	88	1,711	22	22
Wyoming	183	46,154	11	4,478	4	1,410	20	2,388	22	3,653	144	40,119
Water Resources Regions												
Region 01 New England	1,079	9,549	98	338	45	222	711	2,901	218	6,564	252	1,611
Region 02 Mid-Atlantic	2,169	46,528	241	(D)	82	1,330	1,669	35,309	447	11,427	185	1,387
Region 03 South Atlantic-Gulf	5,100	544,917	310	13,142	109	4,419	3,861	134,023	1,125	140,827	469	299,763
Region 04 Great Lakes	1,311	38,967	166	1,037	32	(D)	901	27,404	315	17,014	215	2,904
Region 05 Ohio	1,089	25,434	135	710	27	119	476	(D)	382	6,011	315	1,257
Region 06 Tennessee	210	5,333	12	176	-	-	115	(D)	65	2,153	50	728
Region 07 Upper Mississippi	982	53,238	101	8,629	8	849	767	43,577	220	10,290	98	2,003
Region 08 Lower Mississippi	571	31,481	46	368	4	216	407	(D)	127	6,663	107	581
Region 09 Souris-Red-Rainy	57	17,341	-	-	-	-	18	936	17	10,285	22	6,120
Region 10 Missouri	2,328	334,213	288	64,220	43	30,945	1,065	148,819	207	14,934	1,260	176,899
Region 11 Arkansas-White-Red	629	108,775	93	9,796	29	1,059	460	104,054	71	3,237	122	2,310
Region 12 Texas-Gulf	1,153	133,758	142	21,382	50	4,775	891	100,487	137	9,373	248	31,797
Region 13 Rio Grande	168	20,500	10	1,039	5	1,029	143	16,891	29	89	40	3,720
Region 14 Upper Colorado	495	3,948	11	397	6	180	18	581	171	308	326	3,125
Region 15 Lower Colorado	468	23,355	84	7,997	21	2,756	190	8,355	143	3,935	167	13,278
Region 16 Great Basin	346	15,451	37	1,068	8	8	103	8,587	4	264	241	6,600
Region 17 Pacific Northwest	3,609	629,945	326	86,084	146	59,420	1,757	260,005	617	82,706	1,632	309,458
Region 18 California	3,808	249,526	667	89,782	262	31,426	1,965	156,855	654	23,112	2,077	117,404
Region 19 Alaska	37	132	-	-	-	-	26	55	11	69	8	16
Region 20 Hawaii	700	28,431	22	(D)	7	(D)	33	(D)	69	2,371	616	25,622

See footnote(s) at end of table.

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Table 37. **Selected Crops Harvested in the Open by Chemigation and Water Source: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Pastureland, all types											
			Chemigation				Water source [1]					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
	Farms	Irrigated acres harvested	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2013	42,733	3,034,409	658	63,553	108	6,557	9,860	585,071	5,619	931,158	29,526	1,655,905
2008 [2]	49,582	3,611,216	2,831	115,681	910	23,144	9,967	834,039	14,673	1,377,830	26,876	1,648,457
2013 DATA												
Alabama	46	587	-	-	-	-	19	141	17	326	10	120
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,365	34,897	2	(D)	-	-	615	13,910	75	5,526	838	16,647
Arkansas	87	12,795	-	-	-	-	-	-	87	12,427	8	400
California	3,786	433,570	21	4,470	2	(D)	1,204	116,799	683	152,097	2,688	204,446
Colorado	3,854	296,345	7	1,085	-	-	288	15,348	406	79,237	3,235	220,423
Connecticut	7	14	7	14	-	-	-	-	7	14	-	-
Delaware	5	165	-	-	-	-	5	165	-	-	-	-
Florida	497	99,618	17	9,676	3	2,556	323	31,054	158	54,310	18	20,364
Georgia	226	23,690	5	1,500	-	-	162	7,962	65	12,283	5	3,845
Hawaii	91	5,479	-	-	-	-	6	(D)	16	4,376	71	1,083
Idaho	8,243	277,328	97	3,621	-	-	667	29,171	841	56,461	7,037	193,214
Illinois	17	690	-	-	-	-	17	690	-	-	-	-
Indiana	26	1,017	4	32	-	-	14	899	8	86	4	32
Iowa	11	250	-	-	-	-	11	250	-	-	-	-
Kansas	28	4,251	2	(D)	-	-	28	4,251	-	-	-	-
Kentucky	23	336	-	-	7	(D)	-	-	16	294	7	42
Louisiana	79	5,411	-	-	-	-	41	3,472	17	289	21	1,650
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	16	142	-	-	-	-	-	-	13	127	3	15
Massachusetts	7	7	-	-	-	-	-	-	-	-	7	7
Michigan	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Minnesota	32	3,739	2	(D)	-	-	24	1,884	6	(D)	2	(D)
Mississippi	47	1,868	-	-	-	-	-	-	12	468	35	1,400
Missouri	86	2,430	-	-	-	-	-	-	78	2,110	8	320
Montana	2,930	384,184	4	1,176	-	-	26	5,320	452	166,817	2,514	216,481
Nebraska	402	38,380	28	4,382	-	-	238	30,408	70	11,900	150	4,500
Nevada	877	190,179	3	360	-	-	237	44,219	213	94,064	504	75,201
New Hampshire	1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
New Jersey	37	516	-	-	-	-	37	516	-	-	-	-
New Mexico	2,174	89,871	6	1,017	3	681	991	40,115	385	31,383	971	23,352
New York	8	232	-	-	-	-	8	224	4	8	-	-
North Carolina	142	9,432	-	-	-	-	22	532	99	7,400	21	1,500
North Dakota	13	695	-	-	-	-	3	180	7	455	3	60
Ohio	26	496	-	-	-	-	11	29	15	467	-	-
Oklahoma	240	37,870	17	1,924	3	180	201	33,331	2	(D)	39	5,459
Oregon	4,855	277,547	11	275	-	-	1,640	64,977	522	77,327	2,811	147,582
Pennsylvania	10	230	-	-	-	-	8	150	2	(D)	2	(D)
Rhode Island	10	68	-	-	-	-	4	32	6	36	-	-
South Carolina	39	3,168	-	-	-	-	23	2,153	19	1,045	-	-
South Dakota	12	1,869	-	-	-	-	7	(D)	2	(D)	5	1,289
Tennessee	24	359	-	-	-	-	11	114	12	(D)	1	(D)
Texas	1,873	133,289	118	19,091	56	224	984	84,975	12	10,140	900	38,174
Utah	4,471	242,890	158	9,088	-	-	675	27,304	681	40,423	3,444	186,551
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	19	633	-	-	-	-	-	-	12	626	7	7
Washington	4,003	73,246	109	2,727	-	-	1,240	20,098	243	7,409	2,566	47,324
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	11	249	-	-	-	-	11	249	-	-	-	-
Wyoming	1,975	344,215	40	1,902	34	102	56	3,437	355	97,900	1,591	244,182
Water Resources Regions												
Region 01 New England	25	(D)	7	14	-	-	5	(D)	14	(D)	7	7
Region 02 Mid-Atlantic	80	1,639	-	-	-	-	52	871	25	753	3	15
Region 03 South Atlantic-Gulf	973	137,803	22	11,176	3	2,556	542	41,835	354	75,300	88	27,208
Region 04 Great Lakes	24	793	-	-	-	-	13	678	15	115	-	-
Region 05 Ohio	63	(D)	4	32	7	(D)	22	614	30	(D)	13	(D)
Region 06 Tennessee	39	416	-	-	-	-	16	101	14	272	9	43
Region 07 Upper Mississippi	70	3,328	2	(D)	-	-	63	3,073	5	(D)	2	(D)
Region 08 Lower Mississippi	125	4,736	-	-	-	-	41	3,472	66	814	18	450
Region 09 Souris-Red-Rainy	4	(D)	-	-	-	-	3	180	1	(D)	-	-
Region 10 Missouri	4,144	600,508	72	7,460	34	102	326	45,287	555	225,591	3,380	345,539
Region 11 Arkansas-White-Red	1,299	137,155	42	13,928	3	180	617	84,687	232	32,226	466	22,434
Region 12 Texas-Gulf	1,182	82,043	58	3,490	-	-	523	50,743	23	2,060	662	29,600
Region 13 Rio Grande	2,447	130,304	50	6,686	59	905	1,103	32,483	330	36,632	1,044	66,294
Region 14 Upper Colorado	4,855	422,057	132	6,650	-	-	259	11,350	636	105,158	4,068	320,265
Region 15 Lower Colorado	1,828	55,140	2	(D)	-	-	824	14,736	129	13,238	1,193	29,526
Region 16 Great Basin	3,500	285,003	29	2,798	-	-	670	49,647	553	99,262	2,618	156,496
Region 17 Pacific Northwest	17,913	660,326	217	6,623	-	-	3,473	104,156	1,890	162,412	13,014	416,930
Region 18 California	4,071	504,300	21	4,470	2	(D)	1,302	141,094	731	170,362	2,870	239,721
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	91	5,479	-	-	-	-	6	(D)	16	4,376	71	1,083

[1] Column totals may exceed total farms and acres of crop because more than one water source could be reported.
[2] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

Table 38. **Selected Crops Irrigated and Harvested in the Open by Primary Method of Water Distribution – United States: 2013**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Crop	All methods		Pressure systems		Gravity systems	
	Farms	Acres	Farms	Acres	Farms	Acres
Corn for grain or seed	37,247	13,289,247	29,752	11,012,114	7,495	2,277,133
Corn for silage or greenchop	8,382	1,729,358	4,660	1,204,133	3,722	525,225
Sorghum for grain or seed	3,923	809,579	3,263	686,269	660	123,310
Wheat for grain or seed	12,974	3,197,501	9,934	2,654,442	3,040	543,059
Soybeans for beans	21,755	7,413,276	15,399	4,041,900	6,356	3,371,376
Beans, dry edible	2,793	433,590	1,617	320,390	1,176	113,200
Rice	5,613	3,132,894	146	33,690	5,467	3,099,204
Other small grains (barley, oats, rye, etc.)	6,258	1,209,527	3,949	887,964	2,309	321,563
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	46,181	5,512,871	26,645	3,545,400	19,536	1,967,471
All other hay (dry hay, greenchop, and silage)	28,142	3,300,889	14,595	1,462,829	13,547	1,838,060
Peanuts	1,605	371,634	1,566	360,505	39	11,129
Cotton, all	6,804	2,954,457	5,221	2,179,929	1,583	774,528
Land in vegetables	24,157	2,993,600	22,212	2,653,255	1,945	340,345
Selected vegetables:						
Sweet corn	5,923	321,992	5,205	291,368	718	30,624
Tomatoes in the open	10,496	358,985	9,852	296,125	644	62,860
Lettuce and romaine	5,052	264,154	4,671	214,794	381	49,360
Potatoes, excluding sweet potatoes	5,596	903,297	5,300	876,416	296	26,881
All berries	12,763	227,651	12,043	221,398	720	6,253
Land in orchards, vineyards, and nut trees	52,018	3,662,131	43,177	3,148,482	8,841	513,650
All other crops (see text)	26,309	2,320,822	23,709	1,619,163	2,600	701,659
Pastureland, all types	42,733	3,034,409	19,164	860,538	23,569	2,173,871

Crop	Pressure irrigation distribution systems [1]									
	Hand move		Solid or permanent set		Side roll or wheel line		Big gun		Low-flow irrigation (drip, trickle, or micro sprinklers)	
	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]
Corn for grain or seed	1.2	0.2	0.9	0.1	0.5	0.3	1.3	0.3	1.5	0.4
Corn for silage or greenchop	0.6	0.3	0.2	0.1	1.0	0.4	2.8	1.2	0.8	0.5
Sorghum for grain or seed	(Z)	(D)	1.8	0.3	0.2	(D)	0.7	0.1	3.3	1.9
Wheat for grain or seed	4.4	1.6	0.7	1.4	5.2	4.6	0.5	0.3	1.6	1.2
Soybeans for beans	0.6	0.2	0.5	0.6	0.6	0.4	1.5	0.4	0.6	0.4
Beans, dry edible	10.9	1.4	1.3	1.0	2.0	2.7	0.5	0.3	5.1	4.2
Rice	1.0	0.1	-	-	-	-	-	-	0.6	0.3
Other small grains (barley, oats, rye, etc.)	2.9	1.8	1.3	1.2	16.4	6.3	0.5	0.2	1.1	0.6
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	8.9	2.5	2.8	1.1	14.6	9.4	1.1	0.3	0.6	0.5
All other hay (dry hay, greenchop, and silage)	9.8	2.1	2.8	1.7	10.5	5.6	4.2	2.3	0.6	0.5
Peanuts	0.1	(D)	0.7	0.6	1.4	0.9	2.7	1.0	0.4	0.1
Cotton, all	0.1	(Z)	1.2	1.0	0.2	0.1	0.6	0.2	7.3	5.8
Land in vegetables	20.2	3.9	3.9	6.1	1.0	2.7	3.7	3.2	45.9	27.7
Selected vegetables:										
Sweet corn	18.9	2.7	5.2	0.3	3.1	0.5	11.2	11.5	32.6	9.5
Tomatoes in the open	17.9	5.0	4.9	1.9	0.2	(D)	1.0	0.3	63.3	72.2
Lettuce and romaine	24.3	17.9	8.9	3.9	0.5	(D)	2.0	2.7	52.4	43.9
Potatoes, excluding sweet potatoes	25.5	1.1	6.1	5.4	2.0	4.5	3.1	1.8	34.2	1.0
All berries	18.8	1.9	16.2	40.2	0.1	(Z)	2.2	2.2	49.3	47.3
Land in orchards, vineyards, and nut trees	7.6	0.9	11.7	10.4	(Z)	0.1	0.4	0.1	58.7	72.2
All other crops (see text)	17.5	2.4	11.6	4.5	2.1	5.3	3.3	3.7	30.9	14.3
Pastureland, all types	16.2	2.9	5.3	1.2	5.7	4.2	3.1	1.4	1.2	0.5

See footnote(s) at end of table.

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Table 38. **Selected Crops Irrigated and Harvested in the Open by Primary Method of Water Distribution – United States: 2013** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Crop	Pressure irrigation distribution systems [1] - con.									
	Center pivot and linear move tower systems								Other pressure systems	
	Less than 15 psi		15 to 29 psi		30 to 59 psi		60 psi or more			
	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]
Corn for grain or seed	4.6	4.1	24.4	28.0	38.5	44.6	5.5	3.6	1.5	1.2
Corn for silage or greenchop	4.0	6.7	16.1	19.5	20.6	28.3	7.7	10.4	1.8	2.2
Sorghum for grain or seed	16.3	20.6	47.8	48.0	10.6	11.3	0.4	0.8	2.2	1.6
Wheat for grain or seed	7.4	7.9	29.7	34.2	22.4	25.8	3.3	4.7	1.4	1.3
Soybeans for beans	2.5	1.3	18.9	13.7	37.4	29.8	5.7	3.0	2.5	4.9
Beans, dry edible	2.9	5.2	11.8	19.5	20.5	35.8	2.0	3.2	0.8	0.7
Rice	0.1	(Z)	-	-	0.2	0.1	0.3	0.2	0.5	0.3
Other small grains (barley, oats, rye, etc.)	3.6	2.7	13.9	25.0	18.8	31.3	2.8	3.0	1.8	1.3
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	2.8	3.8	9.7	17.3	13.4	23.8	2.7	3.9	1.3	1.7
All other hay (dry hay, greenchop, and silage)	3.0	3.7	7.8	14.1	9.4	10.5	1.6	1.9	2.0	1.9
Peanuts	7.5	7.0	38.1	38.1	39.9	42.2	6.5	7.0	0.2	(D)
Cotton, all	12.7	12.9	26.9	29.7	22.1	20.0	3.6	2.0	2.0	2.0
Land in vegetables	2.2	1.6	3.5	12.1	6.4	24.1	1.9	6.6	3.1	0.7
Selected vegetables:										
Sweet corn	0.8	0.9	4.2	23.1	7.6	32.1	2.6	9.7	1.8	0.2
Tomatoes in the open	0.5	(Z)	0.3	0.3	2.0	0.7	0.5	(D)	3.3	1.1
Lettuce and romaine	0.4	(Z)	0.9	1.9	1.2	(D)	0.8	2.5	1.3	0.1
Potatoes, excluding sweet potatoes	0.7	1.1	6.0	21.0	12.0	50.2	3.4	10.9	1.7	(Z)
All berries	1.6	0.6	1.5	0.2	2.0	2.2	0.5	1.3	2.1	1.4
Land in orchards, vineyards, and nut trees	0.1	0.1	1.3	0.2	1.6	0.8	0.2	0.1	1.4	1.0
All other crops (see text)	1.9	2.2	5.4	14.5	7.8	18.1	1.6	2.2	7.8	2.7
Pastureland, all types	1.3	1.8	3.6	4.7	4.6	6.0	2.2	2.5	1.6	3.3

Crop	Gravity irrigation distribution systems [1]							
	Down rows or furrows from unlined open ditches		Down rows or furrows from lined open ditches		Down rows or furrows from poly pipe, lay-flat tubing, or above or underground pipe		Controlled flooding within field borders from unlined open ditches	
	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]
Corn for grain or seed	3.7	1.9	1.7	0.9	13.2	12.8	0.5	0.3
Corn for silage or greenchop	8.3	9.3	8.8	3.8	15.4	8.6	1.7	1.2
Sorghum for grain or seed	1.4	2.7	0.7	1.1	9.0	10.1	0.4	0.3
Wheat for grain or seed	4.2	4.8	4.1	2.3	5.1	2.4	4.8	3.7
Soybeans for beans	1.0	1.9	0.3	0.7	23.0	35.6	2.6	1.4
Beans, dry edible	6.8	7.1	9.9	9.6	24.5	8.5	0.2	0.2
Rice	1.8	0.9	0.2	0.3	3.3	3.1	42.6	41.0
Other small grains (barley, oats, rye, etc.)	8.0	5.8	3.4	3.3	5.0	3.6	11.7	7.7
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	6.8	5.5	3.5	3.5	8.4	4.1	12.4	11.2
All other hay (dry hay, greenchop, and silage)	8.1	5.3	1.4	1.8	6.3	3.6	16.1	24.3
Peanuts	0.1	(D)	-	-	1.5	1.8	-	-
Cotton, all	3.2	3.1	7.1	4.6	10.8	13.8	0.7	1.2
Land in vegetables	3.2	4.1	0.7	3.5	1.8	1.1	0.7	0.8
Selected vegetables:								
Sweet corn	5.0	1.8	1.3	2.6	2.2	(D)	0.2	1.0
Tomatoes in the open	2.9	12.3	0.1	(Z)	1.7	2.8	0.2	2.3
Lettuce and romaine	4.2	0.7	0.7	10.8	1.6	(D)	0.1	(D)
Potatoes, excluding sweet potatoes	3.4	1.5	0.3	0.3	1.2	0.7	(Z)	(D)
All berries	2.0	0.3	-	-	1.3	0.4	0.2	1.2
Land in orchards, vineyards, and nut trees	2.4	1.0	0.7	0.6	4.5	2.8	1.6	1.8
All other crops (see text)	2.6	4.4	1.5	3.7	2.8	3.1	0.7	16.2
Pastureland, all types	10.5	9.2	2.1	1.3	6.0	2.4	11.3	19.0

See footnote(s) at end of table.

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Table 38. **Selected Crops Irrigated and Harvested in the Open by Primary Method of Water Distribution – United States: 2013** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Crop	Gravity irrigation distribution systems [1] - con.									
	Controlled flooding within field borders from lined open ditches		Controlled flooding within field borders from poly pipe, lay-flat tubing, or above ground pipe		Controlled flooding within field borders from below ground pipe		Uncontrolled flooding of rangeland, pastureland, etc. including open discharge from well or pump		Other gravity systems	
	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]	Percent of farms	Percent of acres [2]
Corn for grain or seed	0.1	0.1	0.4	0.7	0.3	0.1	(Z)	(Z)	0.1	0.2
Corn for silage or greenchop	1.9	0.8	0.1	0.6	8.1	5.9	(Z)	(D)	0.1	(D)
Sorghum for grain or seed	4.5	0.6	0.4	0.3	0.2	(Z)	-	-	0.2	0.2
Wheat for grain or seed	2.2	1.8	0.6	0.1	1.2	1.1	1.0	0.2	0.2	0.7
Soybeans for beans	0.1	0.3	1.4	4.0	0.7	1.5	(Z)	0.1	0.1	(Z)
Beans, dry edible	0.2	0.4	-	-	0.2	0.3	-	-	0.4	(Z)
Rice	4.3	5.2	12.2	13.2	28.7	31.1	2.3	2.9	2.0	1.4
Other small grains (barley, oats, rye, etc.)	5.3	3.3	0.4	0.2	0.7	1.5	1.7	0.7	0.6	0.4
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	3.1	4.6	1.6	1.2	1.8	2.6	3.1	1.6	1.7	1.4
All other hay (dry hay, greenchop, and silage)	1.9	2.6	2.4	1.6	4.8	3.6	6.5	11.6	0.7	1.3
Peanuts	-	-	0.4	(D)	-	-	-	-	0.4	(Z)
Cotton, all	0.5	0.8	0.5	(D)	0.4	0.2	-	-	(Z)	(D)
Land in vegetables	0.1	0.7	0.3	0.2	0.2	0.2	-	-	1.1	0.8
Selected vegetables:										
Sweet corn	-	-	-	-	0.8	1.6	-	-	2.6	(D)
Tomatoes in the open	-	-	0.6	(Z)	-	-	-	-	0.7	0.1
Lettuce and romaine	0.1	3.6	0.1	0.8	-	-	-	-	0.7	0.4
Potatoes, excluding sweet potatoes	(Z)	(D)	(Z)	(D)	0.1	(Z)	-	-	0.1	0.1
All berries	-	-	0.5	0.1	(Z)	0.3	1.0	(Z)	0.6	0.5
Land in orchards, vineyards, and nut trees	1.0	2.1	0.7	0.3	5.5	5.3	0.5	(Z)	0.1	0.2
All other crops (see text)	0.3	0.3	0.4	0.7	0.2	0.5	0.3	1.0	0.9	0.4
Pastureland, all types	2.3	1.9	1.4	1.1	3.4	3.3	16.3	31.6	1.8	1.9

[1] Percentages are calculated across all methods by irrigated crop and primary method. Data not comparable to previous FRIS published data.
[2] The sum of percent acres irrigated across systems for a crop may not add to 100 percent.

Table 39. **Water Management Practices Used by Operators with Gravity Systems for Acres in the Open: 2013 and 2008**

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All farms [1]	Acres irrigated	Any conservation technique used [2]		Conservation technique used [2]	
					Tailwater pits, diking, time limits, or alternative row irrigation [3]	
			Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	85,159	21,504,684	33,629	9,851,730	20,990	4,205,281
2008 [4]	90,453	22,217,750	45,458	12,891,634	34,234	9,044,133
2013 DATA						
Alabama	97	4,419	18	526	12	(D)
Alaska	11	69	-	-	-	-
Arizona	3,005	748,012	1,429	580,931	566	192,359
Arkansas	3,356	4,296,734	1,221	1,934,866	716	764,424
California	15,231	4,539,426	6,192	2,790,804	3,421	1,229,078
Colorado	9,044	1,196,805	2,620	333,292	1,846	219,264
Connecticut	41	336	8	16	8	16
Delaware	9	18	9	9	-	-
Florida	363	573,147	68	99,157	38	25,383
Georgia	256	4,866	7	14	7	14
Hawaii	228	11,788	31	345	28	273
Idaho	7,902	757,753	2,900	305,506	1,962	145,878
Illinois	65	8,523	18	6,382	15	1,697
Indiana	62	4,585	10	515	10	515
Iowa	75	1,564	11	366	9	(D)
Kansas	1,100	106,984	816	68,667	678	46,717
Kentucky	66	428	17	62	17	34
Louisiana	1,416	969,325	483	369,991	167	87,592
Maine	22	34	2	(D)	-	-
Maryland	44	646	9	135	6	30
Massachusetts	61	2,091	13	(D)	13	(D)
Michigan	135	1,998	12	24	12	12
Minnesota	95	21,741	4	3,052	2	(D)
Mississippi	1,064	1,265,091	457	488,787	201	99,429
Missouri	918	760,732	402	438,686	135	95,646
Montana	5,350	1,144,584	1,899	338,131	1,307	195,312
Nebraska	7,191	1,251,630	4,178	620,428	3,099	415,550
Nevada	1,607	469,556	688	147,428	425	82,264
New Hampshire	36	160	17	23	9	15
New Jersey	41	2,704	19	314	16	175
New Mexico	7,112	289,732	2,772	119,965	1,221	40,510
New York	76	1,069	15	91	4	80
North Carolina	173	1,841	12	24	12	24
North Dakota	140	28,108	77	18,306	41	5,991
Ohio	78	695	15	25	7	13
Oklahoma	138	14,010	54	7,881	40	4,184
Oregon	3,975	571,531	1,543	164,637	1,440	110,675
Pennsylvania	141	1,206	6	6	-	-
Rhode Island	9	163	1	(D)	1	(D)
South Carolina	88	5,577	-	-	-	-
South Dakota	371	51,774	85	13,321	71	7,663
Tennessee	76	8,419	25	3,556	17	1,024
Texas	3,246	560,944	1,195	339,495	856	151,582
Utah	5,431	592,225	1,720	206,583	1,303	96,913
Vermont	60	177	11	19	3	(D)
Virginia	29	162	-	-	-	-
Washington	1,259	169,489	488	84,221	327	30,559
West Virginia	7	106	-	-	-	-
Wisconsin	149	8,034	18	3,178	18	(D)
Wyoming	3,710	1,053,673	2,034	360,680	904	150,059
Water Resources Regions						
Region 01 New England	179	2,797	44	1,327	34	892
Region 02 Mid-Atlantic	314	4,912	58	555	26	285
Region 03 South Atlantic-Gulf	1,039	593,083	110	100,187	70	25,883
Region 04 Great Lakes	266	3,576	28	52	12	12
Region 05 Ohio	189	4,528	36	690	36	662
Region 06 Tennessee	72	395	26	108	18	92
Region 07 Upper Mississippi	367	37,496	97	14,899	44	(D)
Region 08 Lower Mississippi	5,733	6,483,957	2,160	2,707,057	1,031	900,241
Region 09 Souris-Red-Rainy	50	17,431	12	3,832	4	(D)
Region 10 Missouri	17,663	3,491,310	8,789	1,415,449	5,812	830,543
Region 11 Arkansas-White-Red	3,226	1,135,891	1,280	661,248	744	206,364
Region 12 Texas-Gulf	2,594	474,752	843	256,545	534	112,769
Region 13 Rio Grande	7,223	366,462	2,833	158,315	1,624	68,911
Region 14 Upper Colorado	7,297	1,035,080	2,204	234,277	1,586	154,823
Region 15 Lower Colorado	3,440	797,472	1,529	599,544	585	192,501
Region 16 Great Basin	5,504	871,799	1,806	318,923	1,326	152,972
Region 17 Pacific Northwest	14,308	1,573,577	5,386	591,128	3,907	311,158
Region 18 California	15,456	4,598,309	6,357	2,787,249	3,569	1,239,293
Region 19 Alaska	11	69	-	-	-	-
Region 20 Hawaii	228	11,788	31	345	28	273

See footnote(s) at end of table.

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Table 39. **Water Management Practices Used by Operators with Gravity Systems for Acres in the Open: 2013 and 2008** (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Conservation technique used [2] - con.					
	Surge flow or cablegation [5]		Precision-leveling or zero-grading [6]		Shorter furrow length, PAM, or special furrow practices [7]	
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2013	3,227	506,395	10,157	3,898,913	6,435	1,241,141
2008 [4]	4,556	566,941	11,590	3,985,596	10,030	1,738,079
2013 DATA						
Alabama	-	-	1	(D)	5	280
Alaska	-	-	-	-	-	-
Arizona	24	55,614	1,002	273,245	110	59,713
Arkansas	70	22,286	785	965,703	262	182,453
California	553	78,805	3,804	1,207,014	767	275,907
Colorado	249	20,700	122	18,103	691	75,225
Connecticut	-	-	-	-	-	-
Delaware	9	9	-	-	-	-
Florida	4	2,502	35	66,552	5	4,720
Georgia	-	-	-	-	-	-
Hawaii	-	-	10	72	-	-
Idaho	10	800	366	34,416	1,265	124,412
Illinois	13	849	5	2,270	4	1,566
Indiana	-	-	-	-	-	-
Iowa	-	-	2	(D)	-	-
Kansas	59	4,886	85	8,940	164	8,124
Kentucky	7	14	7	14	-	-
Louisiana	-	-	381	262,118	46	20,281
Maine	-	-	-	-	2	(D)
Maryland	6	30	3	75	-	-
Massachusetts	-	-	5	425	-	-
Michigan	6	6	6	6	-	-
Minnesota	-	-	2	(D)	-	-
Mississippi	5	730	360	349,924	82	38,704
Missouri	112	27,679	272	257,309	92	58,052
Montana	16	3,920	379	91,222	416	47,677
Nebraska	644	84,864	314	31,666	796	88,348
Nevada	9	1,440	297	62,524	13	1,200
New Hampshire	8	8	-	-	-	-
New Jersey	-	-	3	64	15	75
New Mexico	218	18,070	1,166	46,591	431	14,794
New York	5	(D)	-	-	6	(D)
North Carolina	-	-	-	-	-	-
North Dakota	-	-	34	7,390	26	4,925
Ohio	8	8	-	-	4	4
Oklahoma	14	633	7	1,051	16	2,013
Oregon	20	1,865	79	10,801	150	41,296
Pennsylvania	6	6	-	-	-	-
Rhode Island	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
South Dakota	-	-	21	3,768	9	1,890
Tennessee	10	776	3	878	3	878
Texas	79	17,532	237	131,247	321	39,134
Utah	157	28,690	308	48,978	220	32,002
Vermont	8	(D)	-	-	8	8
Virginia	-	-	-	-	-	-
Washington	6	6	30	3,282	206	50,374
West Virginia	-	-	-	-	-	-
Wisconsin	-	-	2	(D)	-	-
Wyoming	892	133,654	24	9,889	300	67,078
Water Resources Regions						
Region 01 New England	8	(D)	5	425	2	(D)
Region 02 Mid-Atlantic	26	50	6	139	21	81
Region 03 South Atlantic-Gulf	4	2,502	40	66,802	10	5,000
Region 04 Great Lakes	22	(D)	6	6	12	(D)
Region 05 Ohio	7	14	7	14	-	-
Region 06 Tennessee	8	16	-	-	-	-
Region 07 Upper Mississippi	64	2,082	12	(D)	4	1,566
Region 08 Lower Mississippi	87	45,503	1,546	1,491,238	405	270,075
Region 09 Souris-Red-Rainy	-	-	2	(D)	6	180
Region 10 Missouri	1,600	189,632	780	152,850	1,793	242,424
Region 11 Arkansas-White-Red	127	16,440	339	369,805	536	68,639
Region 12 Texas-Gulf	67	9,654	132	98,834	256	35,288
Region 13 Rio Grande	192	12,472	1,241	63,452	106	13,480
Region 14 Upper Colorado	186	49,900	130	8,298	478	21,256
Region 15 Lower Colorado	24	55,614	1,100	291,716	110	59,713
Region 16 Great Basin	110	29,570	505	107,933	142	28,448
Region 17 Pacific Northwest	142	14,111	474	46,789	1,787	219,070
Region 18 California	553	78,805	3,822	1,193,244	767	275,907
Region 19 Alaska	-	-	-	-	-	-
Region 20 Hawaii	-	-	10	72	-	-

[1] The subirrigation category was dropped as a separate category in 2013 and is now reported as Other Gravity Systems.
[2] More than one technique may have been used on an irrigated acre during the survey year.
[3] The 2008 data equal the sum of irrigation water captured (tailwater pits), water restricted from running off the field, limited irrigation set times or number of irrigations, and alternative row irrigation.
[4] 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.
[5] The 2008 data equal the sum of surge-flow or cablegation and applying mulch or other row covers.
[6] The 2008 data equal gravity systems with laser leveling.
[7] The 2008 data equal the sum of the use of polyacrylamide (PAM), shortening of furrow lengths, and special furrowing techniques.

Table 40. **Irrigated Horticultural Operations: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Operations	Area under protection			Area in the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States 2013	34,569	24,829	1,407,631,360	1,405,381,805	16,923	629,548	524,227
2008	28,881	20,610	1,423,578,687	1,369,090,815	18,797	791,987	579,633
2013 DATA							
Alabama	433	301	25,455,310	25,455,310	283	18,405	16,723
Alaska	150	139	1,731,548	1,731,548	29	58	56
Arizona	359	205	17,572,080	17,572,080	234	6,950	6,947
Arkansas	244	176	3,953,942	3,953,942	124	20,806	20,624
California	3,188	1,569	243,531,183	243,531,183	2,443	72,921	72,333
Colorado	696	241	13,702,377	13,702,377	517	9,468	9,332
Connecticut	563	473	30,922,369	30,922,369	206	2,355	2,151
Delaware	87	72	265,160	265,160	16	611	600
Florida	3,464	1,789	369,783,392	369,783,392	2,328	76,458	61,890
Georgia	639	446	22,415,692	22,415,692	335	14,970	14,681
Hawaii	935	612	23,942,112	23,942,112	476	2,224	1,806
Idaho	394	179	2,556,909	2,556,909	291	(D)	(D)
Illinois	581	467	18,295,306	18,295,306	251	12,302	8,173
Indiana	571	471	7,450,681	7,450,681	186	4,450	2,880
Iowa	407	364	8,839,112	8,839,112	102	2,097	1,063
Kansas	228	192	8,074,504	8,074,504	64	3,653	3,245
Kentucky	626	552	10,921,192	10,918,317	161	1,368	673
Louisiana	449	319	8,152,878	8,152,878	329	5,198	4,557
Maine	686	651	10,607,864	10,607,864	143	812	588
Maryland	402	343	13,852,007	13,852,007	141	9,834	8,871
Massachusetts	707	613	10,926,750	10,926,750	263	2,326	2,116
Michigan	1,426	1,070	53,420,899	53,296,819	573	44,528	22,294
Minnesota	546	485	23,834,480	23,831,980	160	7,360	4,491
Mississippi	269	149	2,918,426	2,918,426	181	4,038	3,871
Missouri	620	556	8,469,932	8,469,932	113	2,976	2,004
Montana	345	284	2,458,858	2,458,858	89	1,230	1,159
Nebraska	300	187	2,057,548	2,057,548	165	3,110	2,397
Nevada	28	19	359,200	359,200	10	400	400
New Hampshire	394	351	5,660,877	5,660,877	105	196	195
New Jersey	769	527	34,930,178	34,930,178	484	20,255	16,272
New Mexico	238	168	886,778	886,778	102	1,484	1,484
New York	1,290	1,066	38,211,640	38,211,640	516	9,700	6,906
North Carolina	1,334	1,073	36,315,699	36,315,699	554	11,734	6,292
North Dakota	49	42	919,488	919,488	19	613	613
Ohio	889	710	32,573,918	32,573,918	324	13,562	7,911
Oklahoma	284	212	11,727,548	11,723,148	111	24,994	21,828
Oregon	1,448	910	44,592,359	44,589,359	925	(D)	(D)
Pennsylvania	2,027	1,820	34,643,884	34,643,884	577	9,400	2,368
Rhode Island	224	197	1,438,186	1,438,186	90	2,429	2,157
South Carolina	402	264	5,194,705	3,082,705	255	22,235	20,888
South Dakota	154	140	1,300,058	1,300,058	48	482	372
Tennessee	571	483	37,454,409	37,454,409	196	10,069	6,937
Texas	1,347	748	89,427,943	89,427,943	845	63,408	59,854
Utah	216	154	18,539,818	18,539,818	129	3,918	3,886
Vermont	384	353	2,865,406	2,865,406	119	318	163
Virginia	879	768	36,117,321	36,117,321	429	11,458	8,160
Washington	1,202	957	7,997,166	7,997,166	477	11,725	11,260
West Virginia	210	184	2,003,960	2,003,960	52	914	344
Wisconsin	860	741	18,037,368	18,036,668	327	15,080	7,537
Wyoming	55	37	320,940	320,940	26	833	832
Water Resources Regions							
Region 01 New England	2,705	2,408	60,433,198	60,433,198	839	8,177	7,251
Region 02 Mid-Atlantic	4,302	3,577	115,035,065	115,035,065	1,789	56,422	41,759
Region 03 South Atlantic-Gulf	6,361	3,874	472,876,723	470,764,723	3,886	144,516	121,477
Region 04 Great Lakes	2,952	2,413	118,269,679	118,145,599	1,111	55,324	27,658
Region 05 Ohio	2,528	2,135	59,732,476	59,729,601	795	21,763	11,573
Region 06 Tennessee	607	532	8,897,441	8,897,441	170	5,970	4,925
Region 07 Upper Mississippi	2,041	1,718	45,904,953	45,904,253	724	34,656	20,085
Region 08 Lower Mississippi	647	482	13,975,098	13,975,098	406	9,772	8,623
Region 09 Souris-Red-Rainy	75	75	8,391,544	8,391,544	23	549	549
Region 10 Missouri	1,744	1,199	33,025,926	33,023,426	704	13,927	12,188
Region 11 Arkansas-White-Red	836	619	20,248,393	20,243,993	355	48,819	45,415
Region 12 Texas-Gulf	1,303	707	87,455,543	87,455,543	827	63,022	59,467
Region 13 Rio Grande	189	163	827,838	827,838	59	1,314	1,314
Region 14 Upper Colorado	228	98	981,198	981,198	148	2,392	2,386
Region 15 Lower Colorado	354	192	17,562,380	17,562,380	242	6,974	6,971
Region 16 Great Basin	238	152	18,528,442	18,528,442	162	4,617	4,585
Region 17 Pacific Northwest	3,186	2,149	55,240,936	55,237,936	1,751	76,173	73,847
Region 18 California	3,188	1,585	244,570,867	244,570,867	2,427	72,881	72,293
Region 19 Alaska	150	139	1,731,548	1,731,548	29	58	56
Region 20 Hawaii	935	612	23,942,112	23,942,112	476	2,224	1,806

Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Floriculture and bedding crops					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	12,918	748,461,106	746,215,251	5,379	31,803	30,719
	2008	12,816	716,103,974	691,526,939	6,062	40,031	30,725
2013 DATA							
Alabama		132	15,857,732	15,857,732	80	(D)	112
Alaska		66	1,327,288	1,327,288	18	37	(D)
Arizona		59	1,977,000	1,977,000	20	22	22
Arkansas		95	2,379,902	2,379,902	52	89	79
California		628	110,242,994	110,242,994	836	10,753	10,345
Colorado		132	12,666,508	12,666,508	244	279	279
Connecticut		279	12,645,586	12,645,586	89	285	(D)
Delaware		32	(D)	(D)	-	-	-
Florida		660	184,889,370	184,889,370	406	5,454	5,401
Georgia		181	9,129,154	9,129,154	104	118	118
Hawaii		348	16,850,262	16,850,262	220	903	865
Idaho		144	2,458,067	2,458,067	76	47	47
Illinois		240	11,612,147	11,612,147	79	393	393
Indiana		318	5,490,951	5,490,951	86	184	184
Iowa		207	7,693,046	7,693,046	52	67	52
Kansas		112	7,491,120	7,491,120	16	31	31
Kentucky		279	8,321,757	8,318,882	72	81	81
Louisiana		72	1,933,753	1,933,753	52	42	38
Maine		421	3,799,727	3,799,727	82	86	(D)
Maryland		160	9,296,167	9,296,167	34	530	530
Massachusetts		467	9,189,481	9,189,481	163	884	877
Michigan		668	45,746,204	45,622,124	197	2,203	2,203
Minnesota		301	20,302,134	20,299,634	41	64	64
Mississippi		65	1,888,170	1,888,170	81	(D)	87
Missouri		327	6,791,603	6,791,603	57	138	138
Montana		130	2,079,340	2,079,340	20	18	14
Nebraska		120	1,544,460	1,544,460	53	106	75
Nevada		1	(D)	(D)	-	-	-
New Hampshire		222	3,168,664	3,168,664	70	88	87
New Jersey		353	15,139,076	15,139,076	170	1,219	1,196
New Mexico		41	248,820	248,820	20	52	52
New York		759	17,019,608	17,019,608	253	256	231
North Carolina		536	23,011,025	23,011,025	187	414	411
North Dakota		18	848,772	848,772	6	(D)	(D)
Ohio		458	19,549,209	19,549,209	105	147	144
Oklahoma		100	4,389,568	4,385,168	19	208	198
Oregon		311	23,698,900	23,698,900	168	2,262	2,114
Pennsylvania		1,080	13,066,344	13,066,344	253	360	288
Rhode Island		79	979,776	979,776	44	25	25
South Carolina		135	4,079,695	1,967,695	47	144	139
South Dakota		61	890,635	890,635	8	8	8
Tennessee		206	7,756,473	7,756,473	56	315	315
Texas		432	(D)	(D)	103	(D)	(D)
Utah		86	9,866,882	9,866,882	35	198	182
Vermont		173	1,986,514	1,986,514	62	56	56
Virginia		376	11,204,377	11,204,377	181	351	294
Washington		242	4,911,674	4,911,674	166	556	514
West Virginia		101	(D)	(D)	21	12	12
Wisconsin		485	14,219,746	14,219,746	163	280	175
Wyoming		20	240,452	240,452	12	6	6
Water Resources Regions							
Region 01 New England		1,539	30,558,434	30,558,434	448	1,368	1,356
Region 02 Mid-Atlantic		2,049	51,181,772	51,181,772	712	2,576	2,401
Region 03 South Atlantic-Gulf		1,610	239,189,436	237,077,436	899	6,306	6,245
Region 04 Great Lakes		1,551	78,829,358	78,705,278	485	2,580	2,478
Region 05 Ohio		1,260	28,020,393	28,017,518	294	520	503
Region 06 Tennessee		285	5,018,287	5,018,287	54	222	222
Region 07 Upper Mississippi		1,021	33,209,477	33,209,477	288	606	601
Region 08 Lower Mississippi		146	4,125,869	4,125,869	91	(D)	132
Region 09 Souris-Red-Rainy		37	8,309,170	8,309,170	6	18	18
Region 10 Missouri		649	29,600,238	29,597,738	307	421	390
Region 11 Arkansas-White-Red		339	10,989,734	10,985,334	78	257	242
Region 12 Texas-Gulf		393	56,409,503	56,409,503	103	1,815	(D)
Region 13 Rio Grande		31	244,320	244,320	22	132	132
Region 14 Upper Colorado		37	502,008	502,008	34	50	50
Region 15 Lower Colorado		59	1,977,000	1,977,000	20	22	22
Region 16 Great Basin		87	9,921,106	9,921,106	43	201	185
Region 17 Pacific Northwest		778	31,854,457	31,854,457	421	(D)	(D)
Region 18 California		633	110,342,994	110,342,994	836	10,753	10,345
Region 19 Alaska		66	1,327,288	1,327,288	18	37	(D)
Region 20 Hawaii		348	16,850,262	16,850,262	220	903	865

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Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Nursery crops					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	5,810	418,306,593	418,303,593	9,777	253,173	202,121
	2008	6,061	476,031,408	452,048,743	9,983	290,530	198,768
2013 DATA							
Alabama		108	5,828,228	5,828,228	141	3,461	3,183
Alaska		8	4,000	4,000	4	(D)	(D)
Arizona		107	15,292,318	15,292,318	186	3,481	3,478
Arkansas		34	1,008,848	1,008,848	51	383	383
California		669	73,597,121	73,597,121	1,329	39,114	38,952
Colorado		63	684,654	684,654	126	2,580	2,530
Connecticut		65	16,156,503	16,156,503	113	1,304	1,151
Delaware		-	-	-	3	(D)	(D)
Florida		842	147,692,364	147,692,364	1,802	32,180	25,963
Georgia		129	7,984,122	7,984,122	197	5,787	5,650
Hawaii		195	5,049,370	5,049,370	229	1,048	678
Idaho		26	40,634	40,634	131	3,119	3,031
Illinois		104	2,869,316	2,869,316	149	7,499	3,720
Indiana		52	831,750	831,750	88	736	407
Iowa		21	16,760	16,760	29	322	132
Kansas		28	171,200	171,200	22	134	100
Kentucky		81	393,547	393,547	92	339	113
Louisiana		154	2,909,564	2,909,564	247	4,167	3,633
Maine		85	174,580	174,580	41	143	131
Maryland		47	251,446	251,446	76	3,369	2,776
Massachusetts		69	415,320	415,320	76	821	682
Michigan		124	3,681,786	3,681,786	240	9,066	4,175
Minnesota		62	834,752	834,752	104	3,428	1,956
Mississippi		32	501,536	501,536	86	(D)	(D)
Missouri		50	221,662	221,662	42	1,347	1,020
Montana		13	71,120	71,120	40	286	286
Nebraska		42	234,800	234,800	81	1,027	986
Nevada		-	-	-	3	38	38
New Hampshire		33	1,195,932	1,195,932	26	86	86
New Jersey		137	18,249,334	18,249,334	271	11,404	8,217
New Mexico		70	392,390	392,390	97	458	458
New York		108	2,435,412	2,435,412	270	5,590	3,483
North Carolina		247	7,553,105	7,553,105	369	8,406	4,041
North Dakota		12	40,392	40,392	18	535	535
Ohio		121	11,597,726	11,597,726	192	11,505	6,622
Oklahoma		36	5,604,820	5,604,820	65	3,600	3,531
Oregon		443	17,721,663	17,718,663	626	28,399	26,997
Pennsylvania		286	2,386,788	2,386,788	274	3,175	1,005
Rhode Island		37	172,213	172,213	45	997	885
South Carolina		114	499,415	499,415	203	8,061	6,988
South Dakota		17	146,200	146,200	38	267	(D)
Tennessee		155	(D)	(D)	113	3,945	1,693
Texas		258	(D)	(D)	636	16,577	14,316
Utah		51	1,371,014	1,371,014	60	283	283
Vermont		49	42,070	42,070	57	121	99
Virginia		156	10,315,652	10,315,652	292	6,263	5,020
Washington		180	2,006,550	2,006,550	216	6,831	6,782
West Virginia		6	(D)	(D)	30	232	232
Wisconsin		80	1,779,063	1,779,063	146	9,157	3,416
Wyoming		4	29,188	29,188	5	(D)	(D)
Water Resources Regions							
Region 01 New England		320	18,135,218	18,135,218	333	3,411	2,979
Region 02 Mid-Atlantic		607	31,897,290	31,897,290	962	27,162	19,919
Region 03 South Atlantic-Gulf		1,428	170,697,977	170,697,977	2,774	59,268	47,466
Region 04 Great Lakes		273	16,600,622	16,600,622	503	17,573	8,272
Region 05 Ohio		344	23,088,867	23,088,867	462	11,494	5,617
Region 06 Tennessee		131	1,909,430	1,909,430	96	1,358	893
Region 07 Upper Mississippi		227	4,474,366	4,474,366	374	19,167	8,710
Region 08 Lower Mississippi		175	5,727,599	5,727,599	267	4,517	3,983
Region 09 Souris-Red-Rainy		16	33,410	33,410	23	531	531
Region 10 Missouri		169	878,476	878,476	228	3,302	2,830
Region 11 Arkansas-White-Red		113	6,317,148	6,317,148	200	4,545	4,410
Region 12 Texas-Gulf		263	23,087,010	23,087,010	621	16,565	14,304
Region 13 Rio Grande		77	322,390	322,390	52	(D)	(D)
Region 14 Upper Colorado		22	270,800	270,800	76	1,578	1,578
Region 15 Lower Colorado		87	15,276,318	15,276,318	194	3,505	3,502
Region 16 Great Basin		29	1,100,214	1,100,214	71	337	337
Region 17 Pacific Northwest		645	18,905,367	18,902,367	995	38,531	36,992
Region 18 California		681	74,530,721	74,530,721	1,313	39,074	38,912
Region 19 Alaska		8	4,000	4,000	4	(D)	(D)
Region 20 Hawaii		195	5,049,370	5,049,370	229	1,048	678

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Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Propagative materials					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	2,505	68,709,465	68,709,465	667	12,235	11,014
	2008	3,150	71,334,757	68,221,983	792	10,689	10,211
2013 DATA							
Alabama		53	2,767,400	2,767,400	15	233	(D)
Alaska		-	-	-	-	-	-
Arizona		42	222,762	222,762	4	452	452
Arkansas		28	416,278	416,278	4	8	8
California		195	14,916,243	14,916,243	109	5,226	5,226
Colorado		21	50,400	50,400	-	-	-
Connecticut		31	93,590	93,590	-	-	-
Delaware		2	(D)	(D)	-	-	-
Florida		187	13,196,572	13,196,572	53	825	(D)
Georgia		37	93,960	93,960	12	12	12
Hawaii		24	40,880	40,880	40	34	28
Idaho		8	776	776	41	186	186
Illinois		48	438,759	438,759	12	12	(D)
Indiana		33	294,120	294,120	12	(D)	547
Iowa		16	81,340	81,340	6	12	12
Kansas		32	181,952	181,952	-	-	-
Kentucky		128	944,664	944,664	10	4	4
Louisiana		56	1,814,281	1,814,281	20	19	19
Maine		18	7,191	7,191	9	5	5
Maryland		31	77,130	77,130	4	4	4
Massachusetts		42	846,300	846,300	7	4	4
Michigan		51	389,508	389,508	17	472	143
Minnesota		33	716,950	716,950	5	3	3
Mississippi		2	(D)	(D)	12	5	5
Missouri		87	140,810	140,810	-	-	-
Montana		10	19,750	19,750	-	-	-
Nebraska		9	74,520	74,520	-	-	-
Nevada		-	-	-	-	-	-
New Hampshire		26	230,724	230,724	-	-	-
New Jersey		41	477,208	477,208	20	75	75
New Mexico		41	101,830	101,830	10	20	20
New York		84	597,220	597,220	18	9	9
North Carolina		176	3,668,120	3,668,120	31	13	13
North Dakota		6	1,272	1,272	-	-	-
Ohio		61	291,265	291,265	21	167	167
Oklahoma		12	1,152,560	1,152,560	-	-	-
Oregon		149	2,151,004	2,151,004	43	(D)	(D)
Pennsylvania		154	1,935,307	1,935,307	30	29	29
Rhode Island		15	12,400	12,400	-	-	-
South Carolina		51	152,275	152,275	-	-	-
South Dakota		-	-	-	-	-	-
Tennessee		47	3,310,405	3,310,405	10	14	14
Texas		149	(D)	(D)	63	186	183
Utah		16	36,000	36,000	-	-	-
Vermont		24	85,554	85,554	-	-	-
Virginia		142	11,436,403	11,436,403	7	1	1
Washington		53	178,080	178,080	13	39	39
West Virginia		-	-	-	-	-	-
Wisconsin		34	74,820	74,820	6	210	210
Wyoming		-	-	-	3	549	(D)
Water Resources Regions							
Region 01 New England		147	1,191,735	1,191,735	16	8	8
Region 02 Mid-Atlantic		350	3,410,947	3,410,947	49	106	106
Region 03 South Atlantic-Gulf		524	30,299,573	30,299,573	111	1,085	(D)
Region 04 Great Lakes		117	1,284,775	1,284,775	50	547	218
Region 05 Ohio		244	4,218,202	4,218,202	46	1,543	(D)
Region 06 Tennessee		52	596,784	596,784	16	12	12
Region 07 Upper Mississippi		126	1,336,554	1,336,554	23	225	(D)
Region 08 Lower Mississippi		73	2,246,916	2,246,916	16	24	24
Region 09 Souris-Red-Rainy		-	-	-	-	-	-
Region 10 Missouri		120	327,934	327,934	9	(D)	(D)
Region 11 Arkansas-White-Red		66	1,255,838	1,255,838	8	2	2
Region 12 Texas-Gulf		141	4,837,882	4,837,882	63	(D)	(D)
Region 13 Rio Grande		48	136,830	136,830	10	20	20
Region 14 Upper Colorado		8	4,000	4,000	-	-	-
Region 15 Lower Colorado		42	222,762	222,762	4	452	452
Region 16 Great Basin		8	32,000	32,000	-	-	-
Region 17 Pacific Northwest		220	2,349,610	2,349,610	97	(D)	(D)
Region 18 California		195	14,916,243	14,916,243	109	5,226	5,226
Region 19 Alaska		-	-	-	-	-	-
Region 20 Hawaii		24	40,880	40,880	40	34	28

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Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Food crops grown under protection			Mushroom crops		
		Operations	Square feet	Square feet irrigated	Operations	Square feet	Square feet irrigated
United States	2013	7,029	136,608,782	136,608,782	410	23,476,222	23,475,522
	2008	3,365	91,430,799	88,144,699	260	57,085,389	56,952,981
2013 DATA							
Alabama		50	1,001,950	1,001,950	-	-	-
Alaska		78	363,920	363,920	-	-	-
Arizona		20	4,000	4,000	-	-	-
Arkansas		63	148,914	148,914	-	-	-
California		217	35,882,725	35,882,725	52	6,099,876	6,099,876
Colorado		59	167,815	167,815	-	-	-
Connecticut		161	1,999,350	1,999,350	14	6,580	6,580
Delaware		29	(D)	(D)	-	-	-
Florida		200	23,431,461	23,431,461	9	2,385	2,385
Georgia		164	2,465,296	2,465,296	-	-	-
Hawaii		89	1,412,880	1,412,880	-	-	-
Idaho		51	57,432	57,432	-	-	-
Illinois		145	1,907,084	1,907,084	4	1,452,000	1,452,000
Indiana		112	821,360	821,360	-	-	-
Iowa		188	1,045,966	1,045,966	-	-	-
Kansas		77	209,232	209,232	-	-	-
Kentucky		168	1,267,224	1,267,224	-	-	-
Louisiana		42	1,075,880	1,075,880	-	-	-
Maine		194	6,145,558	6,145,558	9	78,408	78,408
Maryland		103	1,029,632	1,029,632	31	2,798,700	2,798,700
Massachusetts		124	499,649	499,649	-	-	-
Michigan		347	3,599,201	3,599,201	-	-	-
Minnesota		195	1,979,144	1,979,144	5	1,500	1,500
Mississippi		44	391,620	391,620	-	-	-
Missouri		260	1,336,157	1,336,157	-	-	-
Montana		148	269,448	269,448	4	2,400	2,400
Nebraska		60	203,768	203,768	-	-	-
Nevada		18	(D)	(D)	-	-	-
New Hampshire		119	1,047,882	1,047,882	9	4,167	4,167
New Jersey		66	873,120	873,120	-	-	-
New Mexico		56	139,238	139,238	10	4,500	4,500
New York		290	16,604,834	16,604,834	18	10,332	10,332
North Carolina		260	1,850,963	1,850,963	57	176,626	176,626
North Dakota		24	30,324	30,324	-	-	-
Ohio		212	1,127,718	1,127,718	-	-	-
Oklahoma		89	580,600	580,600	-	-	-
Oregon		164	858,438	858,438	12	60,600	60,600
Pennsylvania		518	13,409,289	13,409,289	38	2,575,228	2,575,228
Rhode Island		84	184,597	184,597	-	-	-
South Carolina		51	435,320	435,320	8	12,000	12,000
South Dakota		96	264,717	264,717	-	-	-
Tennessee		105	(D)	(D)	5	200	200
Texas		113	1,545,888	1,545,888	15	(D)	(D)
Utah		28	176,582	176,582	12	7,089,340	7,089,340
Vermont		184	668,880	668,880	8	2,400	2,400
Virginia		283	3,133,879	3,133,879	15	5,230	5,230
Washington		559	685,602	685,602	17	45,700	45,700
West Virginia		74	(D)	(D)	16	(D)	(D)
Wisconsin		231	1,036,889	1,036,889	42	929,920	929,220
Wyoming		17	51,300	51,300	-	-	-
Water Resources Regions							
Region 01 New England		726	9,956,788	9,956,788	32	89,155	89,155
Region 02 Mid-Atlantic		1,101	19,859,942	19,859,942	98	5,385,726	5,385,726
Region 03 South Atlantic-Gulf		730	29,225,620	29,225,620	51	58,957	58,957
Region 04 Great Lakes		776	20,634,496	20,634,496	26	693,654	693,654
Region 05 Ohio		570	4,209,344	4,209,344	18	32,070	32,070
Region 06 Tennessee		112	1,261,356	1,261,356	24	107,264	107,264
Region 07 Upper Mississippi		634	5,169,186	5,169,186	34	1,697,200	1,696,500
Region 08 Lower Mississippi		111	1,442,114	1,442,114	-	-	-
Region 09 Souris-Red-Rainy		28	47,464	47,464	5	1,500	1,500
Region 10 Missouri		587	2,242,344	2,242,344	-	-	-
Region 11 Arkansas-White-Red		208	1,355,673	1,355,673	8	176,000	176,000
Region 12 Texas-Gulf		106	1,083,888	1,083,888	7	1,932,280	1,932,280
Region 13 Rio Grande		47	119,798	119,798	10	4,500	4,500
Region 14 Upper Colorado		47	204,390	204,390	-	-	-
Region 15 Lower Colorado		27	10,300	10,300	-	-	-
Region 16 Great Basin		39	385,782	385,782	12	7,089,340	7,089,340
Region 17 Pacific Northwest		797	1,734,688	1,734,688	33	108,700	108,700
Region 18 California		216	35,888,809	35,888,809	52	6,099,876	6,099,876
Region 19 Alaska		78	363,920	363,920	-	-	-
Region 20 Hawaii		89	1,412,880	1,412,880	-	-	-

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Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		Sod			Christmas trees and short rotation woody crops		
		Operations	Acres	Acres irrigated	Operations	Acres	Acres irrigated
United States	2013	976	266,521	234,963	1,177	54,297	38,395
	2008	1,237	348,905	286,762	1,305	75,203	43,210
2013 DATA							
Alabama		50	14,239	12,835	2	(D)	(D)
Alaska		1	(D)	(D)	-	-	-
Arizona		6	2,986	2,986	-	-	-
Arkansas		37	20,320	20,148	7	5	5
California		79	15,193	15,193	146	1,199	1,183
Colorado		35	6,372	6,292	110	230	224
Connecticut		1	(D)	(D)	-	-	-
Delaware		2	(D)	(D)	11	(D)	(D)
Florida		80	34,060	27,420	61	2,814	(D)
Georgia		34	7,755	7,609	18	1,217	1,217
Hawaii		18	85	80	-	-	-
Idaho		24	1,800	(D)	52	(D)	(D)
Illinois		23	4,199	3,849	5	20	20
Indiana		12	(D)	1,724	12	78	18
Iowa		10	1,593	834	10	103	33
Kansas		14	3,388	3,024	4	68	58
Kentucky		9	945	475	-	-	-
Louisiana		6	800	760	33	153	97
Maine		4	(D)	(D)	9	1	1
Maryland		13	5,912	5,542	-	-	-
Massachusetts		4	320	320	21	283	219
Michigan		61	17,715	11,035	101	14,961	4,694
Minnesota		12	3,269	2,223	19	477	245
Mississippi		19	2,057	1,890	1	(D)	(D)
Missouri		17	1,322	802	12	170	45
Montana		6	696	688	28	230	172
Nebraska		27	1,848	1,287	16	84	40
Nevada		7	362	362	-	-	-
New Hampshire		-	-	-	-	-	-
New Jersey		27	6,981	6,407	53	352	275
New Mexico		3	757	757	13	177	177
New York		14	3,511	3,077	18	60	24
North Carolina		12	2,599	1,783	19	39	39
North Dakota		-	-	-	1	(D)	(D)
Ohio		12	1,325	625	23	418	352
Oklahoma		26	20,826	17,838	9	360	261
Oregon		17	1,045	1,045	107	(D)	(D)
Pennsylvania		12	(D)	696	32	(D)	223
Rhode Island		8	1,405	1,245	4	1	1
South Carolina		15	13,555	13,411	11	435	309
South Dakota		2	(D)	(D)	-	-	-
Tennessee		28	5,795	4,915	-	-	-
Texas		95	43,977	42,822	65	799	(D)
Utah		27	2,953	2,953	20	485	469
Vermont		-	-	-	-	-	-
Virginia		16	4,415	2,777	4	60	60
Washington		8	804	(D)	89	699	(D)
West Virginia		4	180	(D)	2	(D)	(D)
Wisconsin		29	3,314	2,941	29	1,221	776
Wyoming		10	(D)	210	-	-	-
Water Resources Regions							
Region 01 New England		17	2,725	2,465	34	285	221
Region 02 Mid-Atlantic		80	22,937	18,442	113	1,248	551
Region 03 South Atlantic-Gulf		194	71,433	62,303	106	4,917	3,194
Region 04 Great Lakes		76	18,501	11,556	119	15,775	5,091
Region 05 Ohio		42	5,813	4,308	31	1,759	(D)
Region 06 Tennessee		25	4,376	3,796	6	3	3
Region 07 Upper Mississippi		60	12,410	9,627	56	1,276	(D)
Region 08 Lower Mississippi		31	5,020	4,421	28	54	54
Region 09 Souris-Red-Rainy		-	-	-	-	-	-
Region 10 Missouri		76	9,065	8,060	120	(D)	(D)
Region 11 Arkansas-White-Red		72	43,440	40,352	30	542	377
Region 12 Texas-Gulf		92	43,602	42,447	65	(D)	(D)
Region 13 Rio Grande		3	757	757	13	177	177
Region 14 Upper Colorado		12	(D)	(D)	19	37	31
Region 15 Lower Colorado		6	2,986	2,986	-	-	-
Region 16 Great Basin		41	3,595	3,595	20	485	469
Region 17 Pacific Northwest		51	3,850	3,842	271	(D)	(D)
Region 18 California		79	15,193	15,193	146	1,199	1,183
Region 19 Alaska		1	(D)	(D)	-	-	-
Region 20 Hawaii		18	85	80	-	-	-

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Table 41. **Irrigated Horticultural Operations by Selected Crops Irrigated: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Other horticultural crops					
	Under protection			In the open		
	Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States 2013	588	12,405,176	12,405,176	624	7,386	7,015
2008	596	13,044,447	12,724,080	1,515	13,009	9,965
2013 DATA						
Alabama	-	-	-	-	-	-
Alaska	15	36,340	36,340	10	(D)	(D)
Arizona	19	76,000	76,000	19	10	10
Arkansas	-	-	-	-	-	-
California	40	2,792,224	2,792,224	134	1,435	1,434
Colorado	14	133,000	133,000	14	8	8
Connecticut	14	21,560	21,560	17	(D)	(D)
Delaware	9	(D)	(D)	-	-	-
Florida	32	571,240	571,240	63	1,065	1,065
Georgia	14	2,744,560	2,744,560	5	75	75
Hawaii	18	588,720	588,720	24	154	154
Idaho	-	-	-	8	1	1
Illinois	5	16,000	16,000	2	(D)	(D)
Indiana	5	12,500	12,500	-	-	-
Iowa	5	2,000	2,000	-	-	-
Kansas	7	21,000	21,000	8	32	32
Kentucky	-	-	-	-	-	-
Louisiana	35	419,400	419,400	9	9	9
Maine	25	402,400	402,400	28	(D)	(D)
Maryland	41	398,932	398,932	18	19	19
Massachusetts	-	-	-	7	14	14
Michigan	6	4,200	4,200	22	44	44
Minnesota	-	-	-	-	-	-
Mississippi	13	(D)	(D)	-	-	-
Missouri	6	1,800	1,800	-	-	-
Montana	9	16,800	16,800	-	-	-
Nebraska	-	-	-	9	45	9
Nevada	-	-	-	-	-	-
New Hampshire	17	13,508	13,508	18	22	22
New Jersey	21	191,440	191,440	15	103	103
New Mexico	-	-	-	10	20	20
New York	23	1,550,000	1,550,000	25	83	83
North Carolina	21	55,860	55,860	14	4	4
North Dakota	-	-	-	-	-	-
Ohio	4	8,000	8,000	-	-	-
Oklahoma	-	-	-	-	-	-
Oregon	29	104,886	104,886	32	681	576
Pennsylvania	40	1,536,896	1,536,896	35	127	127
Rhode Island	15	89,200	89,200	-	-	-
South Carolina	8	16,000	16,000	4	40	40
South Dakota	-	-	-	-	-	-
Tennessee	12	(D)	(D)	-	-	-
Texas	23	104,980	104,980	15	15	15
Utah	-	-	-	-	-	-
Vermont	8	80,000	80,000	7	140	7
Virginia	15	22,580	22,580	8	8	8
Washington	12	169,560	169,560	24	2,749	2,749
West Virginia	3	(D)	(D)	-	-	-
Wisconsin	5	170	170	20	20	20
Wyoming	-	-	-	-	-	-
Water Resources Regions						
Region 01 New England	71	526,668	526,668	70	318	222
Region 02 Mid-Atlantic	131	3,310,562	3,310,562	101	473	340
Region 03 South Atlantic-Gulf	82	3,406,560	3,406,560	86	(D)	(D)
Region 04 Great Lakes	37	491,386	491,386	22	44	44
Region 05 Ohio	14	169,600	169,600	9	187	187
Region 06 Tennessee	5	4,320	4,320	-	-	-
Region 07 Upper Mississippi	15	18,170	18,170	20	20	20
Region 08 Lower Mississippi	41	432,600	432,600	9	9	9
Region 09 Souris-Red-Rainy	-	-	-	-	-	-
Region 10 Missouri	6	1,800	1,800	9	45	9
Region 11 Arkansas-White-Red	21	154,000	154,000	15	33	33
Region 12 Texas-Gulf	23	104,980	104,980	15	15	15
Region 13 Rio Grande	-	-	-	10	(D)	(D)
Region 14 Upper Colorado	-	-	-	7	(D)	(D)
Region 15 Lower Colorado	19	76,000	76,000	19	10	10
Region 16 Great Basin	-	-	-	-	-	-
Region 17 Pacific Northwest	50	291,246	291,246	64	3,431	3,326
Region 18 California	40	2,792,224	2,792,224	134	1,435	1,434
Region 19 Alaska	15	36,340	36,340	10	(D)	(D)
Region 20 Hawaii	18	588,720	588,720	24	154	154

Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All methods			Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	24,829	1,405,381,805	17,870,533	14,661	10,474,182	3,114	3,493,459	8,490	3,902,891
2008	20,610	1,369,090,815	25,768,753	14,796	15,979,605	3,520	6,600,479	4,785	3,188,668
2013 DATA									
Alabama	301	25,455,310	508,017	175	312,294	58	47,779	100	147,945
Alaska	139	1,731,548	13,784	88	2,565	29	556	37	10,662
Arizona	205	17,572,080	346,182	93	110,315	4	22,680	113	213,187
Arkansas	176	3,953,942	101,483	83	4,501	16	85,125	83	11,857
California	1,569	243,531,183	3,520,721	785	2,000,359	137	237,583	799	1,282,778
Colorado	241	13,702,377	191,795	126	99,998	32	78,778	107	13,019
Connecticut	473	30,922,369	355,832	303	(D)	72	191,506	113	(D)
Delaware	72	265,160	1,123	42	664	-	-	30	459
Florida	1,789	369,783,392	5,364,931	1,515	3,853,508	264	1,205,956	186	305,467
Georgia	446	22,415,692	370,124	312	356,689	23	(D)	127	(D)
Hawaii	612	23,942,112	267,863	30	5,223	87	61,305	519	201,335
Idaho	179	2,556,909	33,894	109	4,791	18	26,576	61	2,527
Illinois	467	18,295,306	163,485	290	111,168	58	(D)	140	(D)
Indiana	471	7,450,681	49,160	267	(D)	28	(D)	187	9,707
Iowa	364	8,839,112	141,902	172	102,000	56	4,200	146	35,702
Kansas	192	8,074,504	83,755	79	32,420	21	20,255	125	31,080
Kentucky	552	10,918,317	96,311	92	4,016	83	41,693	402	50,602
Louisiana	319	8,152,878	96,599	208	71,475	34	16,538	113	8,586
Maine	651	10,607,864	102,353	386	(D)	51	1,373	231	(D)
Maryland	343	13,852,007	106,450	237	59,130	61	22,833	71	24,487
Massachusetts	613	10,926,750	92,710	329	44,940	124	(D)	262	(D)
Michigan	1,070	53,296,819	342,773	771	117,999	119	19,068	243	205,706
Minnesota	485	23,831,980	304,154	378	121,620	27	5,992	101	176,543
Mississippi	149	2,918,426	35,423	86	31,863	13	976	50	2,584
Missouri	556	8,469,932	102,943	267	50,796	74	3,836	247	48,311
Montana	284	2,458,858	35,168	207	26,662	13	1,705	64	6,801
Nebraska	187	2,057,548	26,970	111	19,802	-	-	76	7,168
Nevada	19	359,200	4,407	19	4,407	-	-	-	-
New Hampshire	351	5,660,877	49,037	220	(D)	60	(D)	95	(D)
New Jersey	527	34,930,178	307,645	370	248,404	47	(D)	129	(D)
New Mexico	168	886,778	12,933	120	(D)	28	3,548	30	(D)
New York	1,066	38,211,640	274,807	598	90,835	161	63,876	347	120,097
North Carolina	1,073	36,315,699	419,636	697	116,203	124	275,116	314	28,317
North Dakota	42	919,488	7,606	24	1,856	12	4,504	12	1,246
Ohio	710	32,573,918	214,671	320	54,031	159	129,251	277	31,389
Oklahoma	212	11,723,148	109,646	93	(D)	2	(D)	122	81,534
Oregon	910	44,589,359	631,897	565	375,389	126	136,062	269	120,447
Pennsylvania	1,820	34,643,884	261,502	1,201	210,183	150	16,358	516	34,961
Rhode Island	197	1,438,186	10,860	120	3,730	31	1,456	60	5,674
South Carolina	264	3,082,705	48,283	163	29,457	55	3,373	55	15,452
South Dakota	140	1,300,058	12,710	79	4,992	18	1,044	52	6,674
Tennessee	483	37,454,409	402,528	201	266,114	73	65,835	252	70,578
Texas	748	89,427,943	1,079,049	362	(D)	105	(D)	322	(D)
Utah	154	18,539,818	277,312	34	192,987	-	-	120	84,325
Vermont	353	2,865,406	31,682	222	20,882	53	(D)	117	(D)
Virginia	768	36,117,321	446,874	500	169,445	129	99,676	203	177,753
Washington	957	7,997,166	97,907	549	54,224	223	4,702	212	38,981
West Virginia	184	2,003,960	32,859	72	(D)	23	(D)	89	(D)
Wisconsin	741	18,036,668	274,667	574	233,803	25	531	152	40,333
Wyoming	37	320,940	6,111	17	3,228	8	198	12	2,684
Water Resources Regions									
Region 01 New England	2,408	60,433,198	614,723	1,428	(D)	353	221,193	822	(D)
Region 02 Mid-Atlantic	3,577	115,035,065	1,016,451	2,470	731,352	385	(D)	825	(D)
Region 03 South Atlantic-Gulf	3,874	470,764,723	6,925,027	2,855	4,705,245	549	1,554,745	770	665,038
Region 04 Great Lakes	2,413	118,145,599	892,795	1,572	359,709	321	207,385	659	325,701
Region 05 Ohio	2,135	59,729,601	523,725	797	272,786	293	119,206	1,178	131,733
Region 06 Tennessee	532	8,897,441	106,126	250	57,475	54	6,506	259	42,145
Region 07 Upper Mississippi	1,718	45,904,253	586,885	1,168	307,077	160	(D)	447	(D)
Region 08 Lower Mississippi	482	13,975,098	216,780	304	(D)	54	(D)	160	(D)
Region 09 Souris-Red-Rainy	75	8,391,544	52,017	45	3,652	18	4,953	18	43,413
Region 10 Missouri	1,199	33,023,426	409,756	643	272,081	99	70,949	526	66,726
Region 11 Arkansas-White-Red	619	20,243,993	247,906	307	49,994	57	77,152	282	120,759
Region 12 Texas-Gulf	707	87,455,543	1,041,778	361	515,567	89	(D)	298	(D)
Region 13 Rio Grande	163	827,838	12,558	128	(D)	28	3,548	17	(D)
Region 14 Upper Colorado	98	981,198	9,669	14	391	18	578	73	8,700
Region 15 Lower Colorado	192	17,562,380	346,078	80	110,212	4	22,680	113	213,187
Region 16 Great Basin	152	18,528,442	279,776	54	197,501	-	-	98	82,275
Region 17 Pacific Northwest	2,149	55,237,936	773,767	1,283	452,934	379	169,199	573	151,635
Region 18 California	1,585	244,570,867	3,533,066	784	2,000,520	137	237,583	816	1,294,962
Region 19 Alaska	139	1,731,548	13,784	88	2,565	29	556	37	10,662
Region 20 Hawaii	612	23,942,112	267,863	30	5,223	87	61,305	519	201,335

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Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Hand watered								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	15,343	313,362,469	3,215,983	8,646	1,715,730	1,451	269,693	5,867	1,230,560
2008	14,535	338,548,915	3,720,238	10,220	2,015,279	1,981	586,832	3,641	1,118,127
2013 DATA									
Alabama	132	2,842,032	53,907	62	47,819	25	3,088	70	2,999
Alaska	97	329,984	(D)	64	2,154	21	(D)	23	(D)
Arizona	160	1,646,880	16,545	60	(D)	-	-	100	(D)
Arkansas	76	1,621,334	31,005	24	1,596	4	25,000	48	4,409
California	860	43,359,830	(D)	378	190,232	54	(D)	484	397,459
Colorado	168	2,184,719	20,584	96	12,138	7	823	78	7,623
Connecticut	353	4,047,206	56,270	218	45,768	62	(D)	88	(D)
Delaware	23	89,200	(D)	13	539	-	-	10	(D)
Florida	418	20,253,889	359,131	296	(D)	61	(D)	99	182,924
Georgia	223	8,301,250	115,464	146	(D)	-	-	77	(D)
Hawaii	233	3,029,380	23,251	7	439	17	506	215	22,306
Idaho	119	824,413	12,728	67	(D)	9	7,776	43	(D)
Illinois	323	(D)	(D)	199	(D)	35	(D)	99	5,172
Indiana	331	5,417,061	(D)	174	(D)	17	9,568	145	7,631
Iowa	228	2,993,281	23,707	106	(D)	31	(D)	101	15,327
Kansas	143	1,923,332	15,473	56	(D)	2	(D)	95	11,480
Kentucky	306	7,860,705	(D)	44	(D)	25	8,819	242	22,313
Louisiana	136	2,526,004	20,002	68	14,006	7	2,163	68	3,833
Maine	490	(D)	(D)	275	(D)	43	(D)	189	8,016
Maryland	185	3,789,691	22,480	148	(D)	19	(D)	33	(D)
Massachusetts	407	5,281,164	27,688	216	15,102	44	(D)	198	(D)
Michigan	724	(D)	(D)	487	(D)	68	(D)	202	85,533
Minnesota	338	9,625,798	124,249	262	(D)	17	(D)	65	65,602
Mississippi	103	763,362	6,823	59	5,426	6	397	38	999
Missouri	341	5,046,864	(D)	139	26,635	27	(D)	192	18,308
Montana	241	1,698,298	29,472	187	21,980	5	1,200	49	6,291
Nebraska	127	1,172,581	(D)	85	9,168	-	-	42	(D)
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	250	(D)	(D)	154	(D)	17	65	95	(D)
New Jersey	345	4,880,638	(D)	220	(D)	38	(D)	97	6,372
New Mexico	129	(D)	(D)	90	(D)	19	3,180	20	(D)
New York	849	10,782,614	74,059	476	34,171	98	6,044	303	33,843
North Carolina	597	10,100,483	102,406	383	(D)	50	(D)	191	(D)
North Dakota	24	869,184	6,324	12	787	6	4,500	6	1,037
Ohio	548	13,294,720	54,297	240	32,423	87	11,247	235	10,627
Oklahoma	128	2,749,200	(D)	45	(D)	-	-	86	8,826
Oregon	598	9,258,948	104,653	368	88,663	45	(D)	202	(D)
Pennsylvania	1,280	13,487,603	93,896	868	68,581	77	10,673	360	14,643
Rhode Island	101	1,026,202	6,292	76	2,094	14	79	25	4,120
South Carolina	119	1,550,825	27,866	77	19,684	9	360	33	7,822
South Dakota	105	1,126,558	9,750	79	4,992	9	639	26	4,119
Tennessee	256	5,103,328	80,239	90	(D)	10	(D)	166	24,511
Texas	545	19,730,624	(D)	253	(D)	53	(D)	254	60,146
Utah	84	9,978,436	90,520	5	29,327	-	-	79	61,194
Vermont	279	1,834,258	16,716	174	15,030	31	(D)	105	(D)
Virginia	405	5,612,056	34,990	234	26,687	53	(D)	148	(D)
Washington	744	4,274,806	47,402	422	(D)	202	(D)	142	(D)
West Virginia	124	488,280	6,594	47	(D)	14	510	63	(D)
Wisconsin	520	13,281,450	160,372	389	140,542	5	45	126	19,785
Wyoming	28	306,440	4,921	8	3,119	8	198	12	1,604
Water Resources Regions									
Region 01 New England	1,716	17,796,219	143,463	1,001	101,219	187	(D)	656	(D)
Region 02 Mid-Atlantic	2,326	29,694,555	209,859	1,578	141,554	192	31,992	603	36,313
Region 03 South Atlantic-Gulf	1,433	43,976,712	664,283	932	393,265	140	65,257	451	205,761
Region 04 Great Lakes	1,727	58,046,506	340,244	1,074	204,585	185	(D)	555	(D)
Region 05 Ohio	1,445	23,792,065	(D)	541	78,665	128	(D)	826	55,769
Region 06 Tennessee	330	(D)	(D)	146	12,001	25	(D)	172	(D)
Region 07 Upper Mississippi	1,178	22,717,021	247,483	804	135,033	87	(D)	313	(D)
Region 08 Lower Mississippi	224	4,344,364	56,739	107	22,383	22	(D)	102	(D)
Region 09 Souris-Red-Rainy	50	1,130,440	7,517	28	2,499	12	4,949	10	70
Region 10 Missouri	818	9,940,387	92,349	460	54,707	28	2,541	373	35,101
Region 11 Arkansas-White-Red	418	6,046,389	45,005	200	18,637	20	1,191	201	25,177
Region 12 Texas-Gulf	526	19,088,224	300,139	258	192,886	45	50,529	238	56,724
Region 13 Rio Grande	125	482,140	(D)	90	(D)	19	(D)	16	(D)
Region 14 Upper Colorado	51	442,100	5,601	7	13	4	14	40	5,574
Region 15 Lower Colorado	140	1,630,880	16,425	40	(D)	-	-	100	(D)
Region 16 Great Basin	77	9,887,860	89,625	13	29,783	-	-	64	59,842
Region 17 Pacific Northwest	1,558	15,210,693	185,699	918	132,260	265	12,215	414	41,224
Region 18 California	871	(D)	(D)	378	190,232	54	(D)	495	397,643
Region 19 Alaska	97	329,984	(D)	64	2,154	21	(D)	23	(D)
Region 20 Hawaii	233	3,029,380	23,251	7	439	17	506	215	22,306

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Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Gravity irrigation								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	294	4,783,177	49,201	119	17,680	120	7,026	89	24,495
2008	191	14,584,204	223,036	126	39,076	59	67,783	29	116,177
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	4	(D)	(D)	-	-	4	(D)	4	(D)
Arizona	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-
California	20	(D)	(D)	8	(D)	7	(D)	13	(D)
Colorado	14	(D)	(D)	-	-	14	(D)	-	-
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	9	(D)	(D)	9	(D)	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-
Georgia	2	(D)	(D)	2	(D)	-	-	-	-
Hawaii	12	(D)	(D)	-	-	-	-	12	(D)
Idaho	-	-	-	-	-	-	-	-	-
Illinois	1	(D)	(D)	1	(D)	-	-	-	-
Indiana	5	(D)	(D)	5	(D)	-	-	-	-
Iowa	16	(D)	(D)	11	(D)	-	-	5	(D)
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	5	(D)	(D)	-	-	5	(D)	5	(D)
Louisiana	-	-	-	-	-	-	-	-	-
Maine	9	(D)	(D)	9	(D)	-	-	-	-
Maryland	6	(D)	(D)	6	(D)	-	-	-	-
Massachusetts	8	(D)	(D)	-	-	8	(D)	-	-
Michigan	1	(D)	(D)	1	(D)	-	-	-	-
Minnesota	16	(D)	(D)	10	(D)	5	(D)	6	(D)
Mississippi	-	-	-	-	-	-	-	-	-
Missouri	10	(D)	(D)	-	-	5	180	5	(D)
Montana	-	-	-	-	-	-	-	-	-
Nebraska	8	(D)	(D)	-	-	-	-	8	(D)
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	20	(D)	(D)	3	(D)	17	(D)	-	-
New Jersey	-	-	-	-	-	-	-	-	-
New Mexico	9	(D)	(D)	-	-	-	-	9	(D)
New York	12	(D)	(D)	-	-	6	(D)	6	(D)
North Carolina	28	(D)	(D)	21	(D)	14	241	-	-
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	5	(D)	(D)	-	-	5	(D)	-	-
Oklahoma	9	(D)	(D)	9	(D)	-	-	-	-
Oregon	23	(D)	(D)	11	(D)	6	27	11	405
Pennsylvania	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	15	(D)	(D)	-	-	10	(D)	5	(D)
Texas	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	15	(D)	(D)	7	(D)	8	(D)	-	-
Washington	6	20,400	(D)	6	(D)	-	-	-	-
West Virginia	6	(D)	(D)	-	-	6	(D)	-	-
Wisconsin	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-
Water Resources Regions									
Region 01 New England	37	(D)	(D)	12	(D)	25	(D)	-	-
Region 02 Mid-Atlantic	34	558,180	6,504	22	(D)	6	3,910	6	(D)
Region 03 South Atlantic-Gulf	31	859,740	11,824	23	11,167	15	657	-	-
Region 04 Great Lakes	28	91,408	717	11	(D)	16	203	6	(D)
Region 05 Ohio	5	5,000	(D)	-	-	5	38	5	(D)
Region 06 Tennessee	17	13,520	274	-	-	12	(D)	5	(D)
Region 07 Upper Mississippi	22	92,160	584	17	(D)	-	-	5	(D)
Region 08 Lower Mississippi	5	10,800	125	-	-	5	125	-	-
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	18	39,360	(D)	-	-	5	180	13	(D)
Region 11 Arkansas-White-Red	9	14,580	72	9	72	-	-	-	-
Region 12 Texas-Gulf	-	-	-	-	-	-	-	-	-
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	23	35,435	510	-	-	14	(D)	9	(D)
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	29	(D)	(D)	17	(D)	6	27	11	405
Region 18 California	20	(D)	(D)	8	(D)	7	(D)	13	(D)
Region 19 Alaska	4	(D)	(D)	-	-	4	(D)	4	(D)
Region 20 Hawaii	12	(D)	(D)	-	-	-	-	12	(D)

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Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sprinkler								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	6,296	765,106,427	9,856,896	3,773	5,621,632	1,094	2,652,278	1,975	1,582,985
2008	6,328	752,511,338	16,586,309	4,567	10,219,216	1,450	5,050,157	1,230	1,316,935
2013 DATA									
Alabama	113	19,182,888	368,389	71	199,508	32	42,446	17	126,434
Alaska	9	24,400	(D)	9	(D)	-	-	-	-
Arizona	61	8,262,660	254,704	29	(D)	4	(D)	33	190,145
Arkansas	28	1,628,448	63,812	6	842	4	60,000	18	2,970
California	411	78,386,015	968,316	238	(D)	42	(D)	171	298,429
Colorado	61	2,242,575	36,497	37	21,820	14	12,245	10	2,432
Connecticut	101	(D)	(D)	70	(D)	13	184,076	18	(D)
Delaware	20	130,000	237	10	(D)	-	-	10	(D)
Florida	1,231	306,813,768	4,374,918	1,048	3,114,859	214	1,176,275	94	83,784
Georgia	79	5,715,104	(D)	72	(D)	3	(D)	7	(D)
Hawaii	238	(D)	(D)	11	643	33	36,859	199	(D)
Idaho	9	14,400	39	-	-	-	-	9	39
Illinois	98	(D)	(D)	72	(D)	17	(D)	20	(D)
Indiana	39	1,840,750	(D)	17	(D)	6	(D)	16	626
Iowa	53	5,027,666	(D)	7	88,362	5	(D)	41	(D)
Kansas	25	2,919,300	55,553	15	19,352	10	(D)	16	(D)
Kentucky	142	6,815,629	26,237	5	(D)	10	14,587	132	(D)
Louisiana	171	4,818,974	67,465	146	51,467	25	14,253	36	1,745
Maine	63	1,082,332	6,040	35	(D)	8	(D)	28	(D)
Maryland	65	(D)	(D)	48	(D)	5	(D)	12	21,373
Massachusetts	135	3,513,886	46,979	40	23,862	53	(D)	59	(D)
Michigan	240	14,608,246	78,242	143	16,418	37	6,719	89	55,105
Minnesota	81	13,643,990	(D)	50	(D)	-	-	37	108,362
Mississippi	26	1,574,096	18,773	19	18,523	7	250	-	-
Missouri	113	4,815,804	37,710	29	(D)	6	(D)	78	24,672
Montana	43	200,660	1,869	35	1,112	3	475	5	282
Nebraska	44	734,100	12,337	18	(D)	-	-	26	(D)
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	28	(D)	(D)	28	(D)	8	(D)	-	-
New Jersey	165	24,991,970	(D)	136	(D)	8	(D)	29	(D)
New Mexico	2	(D)	(D)	2	(D)	-	-	1	(D)
New York	146	5,625,796	51,064	78	(D)	33	(D)	41	22,001
North Carolina	317	14,281,960	150,097	177	33,198	61	(D)	103	(D)
North Dakota	18	108,240	1,274	6	1,064	-	-	12	209
Ohio	153	17,907,624	(D)	73	(D)	47	100,661	54	13,977
Oklahoma	25	8,798,028	94,933	10	(D)	2	(D)	15	(D)
Oregon	342	31,842,663	(D)	223	(D)	84	128,557	83	100,683
Pennsylvania	252	6,128,818	43,674	122	27,422	26	830	110	15,422
Rhode Island	38	180,000	2,653	-	-	14	1,365	24	1,288
South Carolina	86	534,040	11,691	36	1,366	41	2,995	18	7,330
South Dakota	9	345,600	990	-	-	-	-	9	990
Tennessee	168	10,077,455	119,666	86	(D)	44	62,674	54	(D)
Texas	214	(D)	(D)	94	(D)	81	(D)	70	(D)
Utah	57	6,581,382	170,322	27	163,311	-	-	30	7,012
Vermont	13	788,000	(D)	5	(D)	9	(D)	1	(D)
Virginia	265	26,611,947	357,848	188	(D)	57	(D)	55	168,317
Washington	134	3,240,780	(D)	94	(D)	10	826	36	13,610
West Virginia	27	(D)	(D)	1	(D)	3	(D)	23	(D)
Wisconsin	138	3,836,244	50,304	107	40,169	15	373	26	9,762
Wyoming	-	-	-	-	-	-	-	-	-
Water Resources Regions									
Region 01 New England	365	28,667,875	319,171	173	91,609	96	(D)	129	(D)
Region 02 Mid-Atlantic	710	52,995,925	505,396	516	(D)	87	(D)	143	(D)
Region 03 South Atlantic-Gulf	1,837	358,405,194	5,163,134	1,402	3,425,442	366	1,344,028	242	393,664
Region 04 Great Lakes	443	37,122,820	268,749	247	(D)	109	117,750	145	(D)
Region 05 Ohio	428	17,806,037	(D)	125	(D)	71	(D)	265	41,227
Region 06 Tennessee	156	3,385,975	(D)	71	16,478	5	(D)	82	(D)
Region 07 Upper Mississippi	329	20,327,263	(D)	202	(D)	37	(D)	111	(D)
Region 08 Lower Mississippi	193	8,195,474	143,353	159	65,725	34	75,882	36	1,745
Region 09 Souris-Red-Rainy	14	7,242,240	44,408	6	1,064	-	-	8	43,343
Region 10 Missouri	201	10,981,020	148,899	61	128,320	8	263	132	20,317
Region 11 Arkansas-White-Red	99	13,154,876	191,552	43	26,278	33	75,836	41	89,438
Region 12 Texas-Gulf	199	65,418,623	(D)	95	250,110	65	(D)	70	32,242
Region 13 Rio Grande	10	217,000	(D)	10	(D)	-	-	1	(D)
Region 14 Upper Colorado	18	221,175	2,263	7	29	7	(D)	4	(D)
Region 15 Lower Colorado	61	8,262,660	254,704	29	(D)	4	(D)	33	190,145
Region 16 Great Basin	57	6,581,382	170,322	27	163,311	-	-	30	7,012
Region 17 Pacific Northwest	512	34,342,703	(D)	342	(D)	97	129,859	127	102,614
Region 18 California	417	(D)	980,316	238	(D)	42	(D)	177	310,429
Region 19 Alaska	9	24,400	(D)	9	(D)	-	-	-	-
Region 20 Hawaii	238	(D)	(D)	11	643	33	36,859	199	(D)

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Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Drip, trickle, or low-flow micro irrigation								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	7,772	391,127,621	4,217,443	5,266	2,860,055	1,082	372,360	1,972	985,028
2008	6,336	371,620,978	4,946,370	4,595	3,610,778	957	763,334	1,418	572,257
2013 DATA									
Alabama	104	5,665,910	85,722	74	64,966	17	2,244	13	18,512
Alaska	42	1,376,364	10,584	19	(D)	13	(D)	19	10,309
Arizona	51	8,382,540	74,933	25	62,814	1	(D)	26	(D)
Arkansas	94	762,960	6,666	59	2,063	12	125	29	4,478
California	626	136,530,423	1,812,185	322	1,086,577	60	158,378	318	567,230
Colorado	49	(D)	(D)	16	66,040	11	(D)	26	2,964
Connecticut	153	2,172,028	(D)	132	(D)	7	(D)	14	(D)
Delaware	29	45,960	184	19	(D)	-	-	10	(D)
Florida	449	48,218,587	606,222	438	561,061	48	(D)	8	(D)
Georgia	227	10,232,614	(D)	170	(D)	20	184	50	260
Hawaii	219	6,577,492	71,942	17	4,140	42	23,678	173	44,123
Idaho	60	2,114,096	21,127	42	(D)	18	18,800	9	(D)
Illinois	135	2,999,498	14,732	76	(D)	30	(D)	34	487
Indiana	142	3,499,970	10,949	109	4,329	23	6,412	16	208
Iowa	172	2,393,455	19,551	83	6,052	40	2,773	54	10,726
Kansas	56	3,411,872	12,730	25	(D)	11	901	29	(D)
Kentucky	189	4,515,931	19,713	59	1,483	56	4,259	94	13,970
Louisiana	44	857,340	8,879	27	6,002	9	122	8	2,756
Maine	194	(D)	(D)	149	(D)	16	937	37	2,583
Maryland	154	5,540,629	(D)	97	(D)	47	1,552	36	(D)
Massachusetts	174	(D)	16,151	103	(D)	34	(D)	94	8,178
Michigan	443	17,125,454	82,049	371	25,486	49	(D)	60	(D)
Minnesota	184	6,247,392	40,954	173	35,541	10	4,889	11	524
Mississippi	60	1,276,500	9,828	35	7,914	6	328	19	1,585
Missouri	247	2,221,784	17,940	158	(D)	38	(D)	66	5,132
Montana	55	604,500	3,828	35	3,569	5	30	15	228
Nebraska	52	205,847	(D)	26	(D)	-	-	26	1,677
Nevada	19	359,200	4,407	19	4,407	-	-	-	-
New Hampshire	135	(D)	(D)	108	(D)	26	647	9	70
New Jersey	131	7,563,850	(D)	104	(D)	8	(D)	27	(D)
New Mexico	38	(D)	(D)	29	(D)	18	368	-	-
New York	244	9,496,558	(D)	136	35,282	18	(D)	90	63,053
North Carolina	328	5,803,211	33,854	273	21,245	57	7,604	27	5,005
North Dakota	6	8,064	9	6	4	6	4	-	-
Ohio	268	8,182,327	26,675	136	(D)	99	15,937	67	(D)
Oklahoma	91	1,134,240	3,769	59	(D)	-	-	32	(D)
Oregon	233	7,656,726	65,722	180	56,073	19	(D)	35	(D)
Pennsylvania	576	16,632,609	121,547	442	112,030	81	4,832	70	4,686
Rhode Island	58	231,984	1,915	44	1,636	3	12	11	266
South Carolina	103	1,356,440	8,726	85	8,407	5	18	13	301
South Dakota	44	432,700	1,970	-	-	9	405	35	1,565
Tennessee	143	23,453,686	(D)	84	168,583	21	(D)	59	32,486
Texas	134	5,989,756	114,590	65	71,919	10	1,129	69	41,542
Utah	40	1,985,040	16,469	7	349	-	-	33	16,120
Vermont	100	370,956	(D)	74	(D)	22	(D)	19	(D)
Virginia	252	6,507,322	(D)	216	42,705	20	7,787	23	(D)
Washington	191	850,260	8,249	127	(D)	23	(D)	52	(D)
West Virginia	35	193,660	1,526	23	(D)	9	78	3	(D)
Wisconsin	186	3,432,624	52,892	181	52,778	5	113	-	-
Wyoming	13	122,100	1,186	9	106	-	-	4	1,080
Water Resources Regions									
Region 01 New England	737	(D)	58,585	551	40,854	101	6,375	173	11,355
Region 02 Mid-Atlantic	1,180	37,530,370	281,722	902	(D)	149	(D)	175	(D)
Region 03 South Atlantic-Gulf	1,244	73,156,912	936,598	1,053	853,735	148	22,246	137	60,617
Region 04 Great Lakes	830	32,663,616	214,053	601	(D)	105	(D)	170	114,009
Region 05 Ohio	622	30,347,170	196,555	330	153,582	170	(D)	195	(D)
Region 06 Tennessee	131	4,012,886	49,937	97	28,996	18	(D)	25	(D)
Region 07 Upper Mississippi	600	13,135,405	(D)	436	(D)	80	(D)	99	(D)
Region 08 Lower Mississippi	134	1,866,600	16,311	93	(D)	20	575	21	(D)
Region 09 Souris-Red-Rainy	11	18,864	93	11	88	6	4	-	-
Region 10 Missouri	412	15,449,379	167,740	216	89,051	62	67,815	162	10,875
Region 11 Arkansas-White-Red	183	(D)	8,537	114	2,907	12	125	63	5,504
Region 12 Texas-Gulf	135	6,089,756	(D)	66	72,571	10	1,129	69	(D)
Region 13 Rio Grande	37	141,298	1,142	28	(D)	18	(D)	-	-
Region 14 Upper Colorado	34	311,888	1,296	7	349	7	1	20	946
Region 15 Lower Colorado	51	8,382,540	74,933	25	62,814	1	(D)	26	(D)
Region 16 Great Basin	45	2,064,240	19,829	19	4,407	-	-	26	15,422
Region 17 Pacific Northwest	493	10,647,798	95,022	353	62,705	60	24,925	101	7,392
Region 18 California	632	136,542,807	1,812,362	328	1,086,754	60	158,378	318	567,230
Region 19 Alaska	42	1,376,364	10,584	19	(D)	13	(D)	19	10,309
Region 20 Hawaii	219	6,577,492	71,942	17	4,140	42	23,678	173	44,123

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Table 42. **Estimated Quantity of Water Applied to Crops Grown Under Protection on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Subirrigation (including hydroponic)								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Square feet irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	533	54,515,132	531,010	331	259,085	102	192,102	147	79,824
2008	420	18,950,180	292,799	282	95,255	61	132,372	120	65,172
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-
California	42	7,817,811	139,131	32	(D)	-	-	10	(D)
Colorado	-	-	-	-	-	-	-	-	-
Connecticut	18	(D)	(D)	11	(D)	7	910	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	36	2,241,000	24,660	36	(D)	-	-	9	(D)
Georgia	-	-	-	-	-	-	-	-	-
Hawaii	22	1,334,040	20,260	-	-	11	262	11	19,998
Idaho	-	-	-	-	-	-	-	-	-
Illinois	5	9,470	(D)	5	(D)	-	-	-	-
Indiana	15	129,700	1,255	5	14	-	-	10	1,241
Iowa	12	442,940	3,736	-	-	-	-	12	3,736
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	22	3,454,460	16,646	-	-	12	(D)	15	(D)
Louisiana	9	36,000	252	-	-	-	-	9	252
Maine	11	(D)	(D)	11	(D)	-	-	-	-
Maryland	5	30,240	120	5	120	-	-	-	-
Massachusetts	23	121,480	(D)	16	(D)	-	-	7	126
Michigan	43	3,391,080	(D)	18	(D)	5	(D)	20	(D)
Minnesota	11	271,000	4,062	11	(D)	-	-	5	(D)
Mississippi	-	-	-	-	-	-	-	-	-
Missouri	11	49,640	270	-	-	5	(D)	6	(D)
Montana	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	1	(D)	(D)	1	(D)	-	-	-	-
New Jersey	11	275,000	7,525	6	(D)	-	-	5	(D)
New Mexico	-	-	-	-	-	-	-	-	-
New York	35	13,311,424	50,703	17	(D)	12	48,210	6	(D)
North Carolina	41	8,969,905	(D)	33	(D)	8	(D)	-	-
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	22	1,175,816	5,740	18	4,284	9	(D)	4	(D)
Oklahoma	-	-	-	-	-	-	-	-	-
Oregon	8	443,506	1,844	8	(D)	2	(D)	-	-
Pennsylvania	44	780,000	2,385	38	2,151	6	24	6	210
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-
Texas	15	638,000	2,740	7	(D)	-	-	8	(D)
Utah	-	-	-	-	-	-	-	-	-
Vermont	8	48,000	1,680	8	1,680	-	-	-	-
Virginia	21	167,020	728	7	210	14	518	-	-
Washington	11	220,000	2,110	11	(D)	11	(D)	-	-
West Virginia	6	360,000	(D)	6	(D)	-	-	-	-
Wisconsin	21	897,800	11,099	17	313	-	-	4	10,786
Wyoming	4	400	4	4	4	-	-	-	-
Water Resources Regions									
Region 01 New England	53	8,020,880	(D)	39	(D)	7	910	7	126
Region 02 Mid-Atlantic	71	1,545,240	12,970	54	12,411	12	234	5	325
Region 03 South Atlantic-Gulf	91	11,363,925	149,189	76	21,637	15	122,557	9	4,995
Region 04 Great Lakes	73	16,604,504	69,032	36	(D)	15	50,556	26	(D)
Region 05 Ohio	67	4,805,976	(D)	31	(D)	17	15,190	35	(D)
Region 06 Tennessee	7	14,000	70	-	-	7	70	-	-
Region 07 Upper Mississippi	44	1,591,870	18,903	33	(D)	-	-	16	(D)
Region 08 Lower Mississippi	9	36,000	252	-	-	-	-	9	252
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	20	79,380	(D)	4	4	5	150	11	(D)
Region 11 Arkansas-White-Red	15	638,000	2,740	7	2,100	-	-	8	640
Region 12 Texas-Gulf	-	-	-	-	-	-	-	-	-
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	7	6,300	17	7	17	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	19	663,506	3,954	19	1,781	13	2,173	-	-
Region 18 California	35	7,811,511	139,114	25	(D)	-	-	10	(D)
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	22	1,334,040	20,260	-	-	11	262	11	19,998

Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		All methods			Water source					
					Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
		Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States	2013	16,923	524,227	204,811,499	10,870	118,480,920	3,127	28,856,886	4,516	57,473,694
	2008	18,797	579,633	209,392,915	12,707	103,727,069	5,303	50,764,157	3,943	54,901,690
2013 DATA										
Alabama		283	16,723	3,687,187	192	2,408,507	75	1,199,504	49	79,175
Alaska		29	56	3,655	24	(D)	5	(D)	4	(D)
Arizona		234	6,947	9,568,016	136	4,808,293	23	(D)	104	(D)
Arkansas		124	20,624	2,898,965	68	2,419,908	15	361,208	49	117,850
California		2,443	72,333	42,793,120	1,458	23,782,714	128	2,973,653	1,069	16,036,754
Colorado		517	9,332	5,342,286	169	3,551,973	69	538,923	335	1,251,390
Connecticut		206	2,151	(D)	156	359,497	50	260,829	32	(D)
Delaware		16	600	(D)	5	(D)	11	(D)	-	-
Florida		2,328	61,890	17,506,713	1,966	13,119,454	401	3,051,382	112	1,335,877
Georgia		335	14,681	3,404,523	272	2,325,304	50	989,888	30	89,330
Hawaii		476	1,806	(D)	12	5,700	56	64,504	419	(D)
Idaho		291	(D)	3,191,478	136	810,336	49	117,286	145	2,263,857
Illinois		251	8,173	1,468,239	170	949,039	81	510,400	34	8,800
Indiana		186	2,880	729,967	129	591,123	34	136,359	30	2,485
Iowa		102	1,063	207,631	56	146,693	27	57,219	33	3,719
Kansas		64	3,245	925,391	43	705,092	13	208,923	15	11,376
Kentucky		161	673	113,978	28	21,638	34	63,090	104	29,250
Louisiana		329	4,557	1,688,916	243	1,261,807	39	411,299	79	15,810
Maine		143	588	27,790	109	(D)	16	(D)	29	3,163
Maryland		141	8,871	1,070,507	104	907,767	34	92,664	10	70,076
Massachusetts		263	2,116	(D)	136	91,804	62	200,486	104	(D)
Michigan		573	22,294	3,703,836	431	2,279,764	170	1,216,493	74	207,579
Minnesota		160	4,491	1,464,285	129	1,012,583	41	(D)	21	(D)
Mississippi		181	3,871	1,627,635	75	1,244,223	35	358,656	77	24,756
Missouri		113	2,004	(D)	62	506,817	27	(D)	34	(D)
Montana		89	1,159	341,858	40	188,235	22	60,393	33	93,230
Nebraska		165	2,397	682,863	122	615,758	11	6,748	38	60,357
Nevada		10	400	412,621	10	412,621	-	-	-	-
New Hampshire		105	195	(D)	87	(D)	18	(D)	1	(D)
New Jersey		484	16,272	2,828,200	381	2,157,456	90	662,623	45	8,120
New Mexico		102	1,484	(D)	91	(D)	21	(D)	14	38,200
New York		516	6,906	1,003,686	319	871,864	105	58,564	135	73,259
North Carolina		554	6,292	1,895,069	328	335,546	219	1,339,877	75	219,645
North Dakota		19	613	(D)	12	(D)	6	(D)	1	(D)
Ohio		324	7,911	1,613,055	159	543,327	133	(D)	77	(D)
Oklahoma		111	21,828	6,921,151	62	6,224,132	17	310,669	42	386,350
Oregon		925	(D)	33,193,082	560	8,972,292	179	3,478,568	284	20,742,222
Pennsylvania		577	2,368	(D)	435	(D)	131	(D)	68	31,373
Rhode Island		90	2,157	268,728	32	31,955	23	216,565	35	20,208
South Carolina		255	20,888	4,249,235	187	3,626,831	84	603,379	23	19,024
South Dakota		48	372	(D)	22	(D)	10	(D)	25	(D)
Tennessee		196	6,937	1,382,363	82	765,705	79	586,677	72	29,980
Texas		845	59,854	32,640,104	620	25,663,102	126	3,730,675	197	3,246,327
Utah		129	3,886	1,840,242	42	(D)	2	(D)	95	427,221
Vermont		119	163	16,000	80	5,958	17	7,956	24	2,085
Virginia		429	8,160	2,606,469	334	830,299	118	1,769,438	31	6,732
Washington		477	11,260	6,529,788	263	1,065,600	76	344,418	162	5,119,771
West Virginia		52	344	38,967	31	33,092	11	5,214	10	662
Wisconsin		327	7,537	1,158,412	259	1,084,757	74	71,825	22	1,830
Wyoming		26	832	218,333	3	2,933	10	(D)	15	(D)
Water Resources Regions										
Region 01 New England		839	7,251	1,345,464	528	(D)	169	(D)	225	(D)
Region 02 Mid-Atlantic		1,789	41,759	7,604,660	1,372	4,969,969	373	2,498,756	178	135,934
Region 03 South Atlantic-Gulf		3,886	121,477	30,815,574	3,001	21,902,848	868	7,257,139	348	1,655,587
Region 04 Great Lakes		1,111	27,658	4,760,148	790	2,482,288	280	1,794,886	174	482,973
Region 05 Ohio		795	11,573	2,352,014	330	1,338,375	270	(D)	269	(D)
Region 06 Tennessee		170	4,925	(D)	101	(D)	47	(D)	56	(D)
Region 07 Upper Mississippi		724	20,085	4,480,613	551	3,395,293	184	1,057,212	94	28,108
Region 08 Lower Mississippi		406	8,623	3,921,488	275	2,879,063	65	(D)	107	(D)
Region 09 Souris-Red-Rainy		23	549	79,279	6	68,616	12	10,303	5	360
Region 10 Missouri		704	12,188	4,736,449	324	3,264,345	102	1,001,086	349	471,019
Region 11 Arkansas-White-Red		355	45,415	11,011,796	233	9,899,903	57	672,368	83	439,525
Region 12 Texas-Gulf		827	59,467	32,535,143	621	25,664,079	107	3,624,737	197	3,246,327
Region 13 Rio Grande		59	1,314	499,151	48	(D)	21	(D)	16	(D)
Region 14 Upper Colorado		148	2,386	1,503,430	17	(D)	34	(D)	111	1,081,166
Region 15 Lower Colorado		242	6,971	9,581,702	144	4,815,136	23	(D)	112	(D)
Region 16 Great Basin		162	4,585	2,488,561	68	1,311,643	10	(D)	102	(D)
Region 17 Pacific Northwest		1,751	73,847	42,971,220	983	11,020,012	316	3,986,893	606	27,964,316
Region 18 California		2,427	72,293	42,772,311	1,442	23,768,747	128	2,973,653	1,061	16,029,911
Region 19 Alaska		29	56	3,655	24	(D)	5	(D)	4	(D)
Region 20 Hawaii		476	1,806	(D)	12	5,700	56	64,504	419	(D)

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Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Hand watered								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	4,652	7,107	1,904,879	2,805	748,392	534	219,914	1,631	936,573
2008	5,189	7,295	1,513,957	3,437	(D)	877	(D)	1,510	(D)
2013 DATA									
Alabama	76	89	24,623	56	15,492	11	3,020	33	6,111
Alaska	14	6	(D)	14	(D)	-	-	-	-
Arizona	79	61	11,306	59	(D)	-	-	20	(D)
Arkansas	28	31	(D)	12	(D)	4	2,607	12	2,286
California	767	2,268	963,770	359	210,476	29	42,028	404	711,266
Colorado	36	52	8,268	22	(D)	7	(D)	21	(D)
Connecticut	89	69	(D)	67	(D)	23	(D)	22	(D)
Delaware	-	-	-	-	-	-	-	-	-
Florida	242	717	77,253	222	72,272	21	(D)	16	(D)
Georgia	97	127	16,086	76	(D)	-	-	21	(D)
Hawaii	168	216	(D)	6	600	23	(D)	145	(D)
Idaho	50	(D)	(D)	50	(D)	8	240	8	(D)
Illinois	101	198	47,279	76	32,819	29	11,575	17	2,885
Indiana	68	64	12,759	33	3,889	5	7,200	30	1,670
Iowa	22	10	2,702	15	1,897	5	1	12	804
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	43	35	11,800	-	-	5	415	43	11,385
Louisiana	61	29	1,329	18	587	-	-	43	743
Maine	99	61	3,806	78	(D)	9	(D)	21	1,865
Maryland	37	28	1,238	25	754	6	430	6	54
Massachusetts	95	125	(D)	51	(D)	9	567	45	4,290
Michigan	117	152	17,995	66	7,977	7	6,949	44	3,070
Minnesota	57	28	(D)	46	(D)	-	-	17	434
Mississippi	67	50	(D)	12	(D)	-	-	55	(D)
Missouri	39	21	1,408	28	939	-	-	17	468
Montana	31	56	(D)	23	3,933	3	5,544	5	(D)
Nebraska	43	39	2,341	9	30	8	800	26	1,511
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	33	25	815	33	815	-	-	-	-
New Jersey	121	147	21,683	85	16,812	17	2,031	30	2,840
New Mexico	19	41	(D)	9	90	10	(D)	-	-
New York	239	215	83,142	134	64,793	64	9,987	53	8,361
North Carolina	132	112	15,205	91	(D)	26	(D)	21	6,571
North Dakota	6	12	4,500	-	-	6	4,500	-	-
Ohio	140	159	32,486	83	(D)	39	(D)	41	2,361
Oklahoma	24	4	1,062	14	533	-	-	13	529
Oregon	197	(D)	(D)	132	36,982	18	(D)	47	(D)
Pennsylvania	237	236	(D)	178	(D)	35	(D)	36	(D)
Rhode Island	39	146	(D)	15	(D)	2	(D)	22	(D)
South Carolina	27	10	(D)	25	(D)	2	(D)	-	-
South Dakota	36	72	5,834	19	3,598	9	(D)	17	(D)
Tennessee	36	68	8,439	15	2,686	10	2,368	21	3,385
Texas	186	193	(D)	110	29,638	18	(D)	69	(D)
Utah	34	46	(D)	5	(D)	-	-	29	(D)
Vermont	79	87	4,032	56	2,171	9	645	16	1,217
Virginia	130	89	20,913	106	16,336	16	871	24	3,706
Washington	226	363	80,812	132	(D)	22	(D)	78	(D)
West Virginia	28	35	2,612	13	321	5	1,629	10	662
Wisconsin	149	211	33,535	127	29,951	10	(D)	17	(D)
Wyoming	8	8	2,311	-	-	4	1,303	4	1,008
Water Resources Regions									
Region 01 New England	379	461	47,357	252	(D)	43	(D)	126	8,534
Region 02 Mid-Atlantic	593	560	96,148	431	(D)	109	(D)	90	(D)
Region 03 South Atlantic-Gulf	645	1,115	(D)	483	116,954	68	(D)	141	(D)
Region 04 Great Lakes	404	493	102,657	277	(D)	56	30,180	89	(D)
Region 05 Ohio	286	327	(D)	110	(D)	49	(D)	160	(D)
Region 06 Tennessee	25	17	3,390	19	1,217	6	196	14	1,977
Region 07 Upper Mississippi	269	319	(D)	230	(D)	34	(D)	42	2,575
Region 08 Lower Mississippi	89	61	(D)	29	3,970	4	2,607	56	(D)
Region 09 Souris-Red-Rainy	11	15	4,860	-	-	6	4,500	5	360
Region 10 Missouri	110	163	17,474	45	10,098	17	1,543	71	5,833
Region 11 Arkansas-White-Red	55	20	4,274	33	1,460	-	-	25	2,814
Region 12 Texas-Gulf	186	193	(D)	110	(D)	18	(D)	69	(D)
Region 13 Rio Grande	19	41	(D)	9	90	10	(D)	-	-
Region 14 Upper Colorado	14	8	912	-	-	7	684	7	228
Region 15 Lower Colorado	79	61	11,306	59	(D)	-	-	20	(D)
Region 16 Great Basin	50	50	(D)	21	30,642	8	(D)	29	5,529
Region 17 Pacific Northwest	497	716	165,865	326	(D)	47	(D)	138	48,292
Region 18 California	759	2,267	962,695	351	209,401	29	42,028	404	711,266
Region 19 Alaska	14	6	(D)	14	(D)	-	-	-	-
Region 20 Hawaii	168	216	(D)	6	600	23	(D)	145	(D)

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Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Gravity irrigation								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	601	28,818	13,758,030	215	5,155,314	122	1,495,733	314	7,106,983
2008	562	27,186	11,755,412	257	5,406,664	182	(D)	212	(D)
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	64	2,915	4,281,682	1	(D)	1	(D)	64	2,940,479
Arkansas	7	(D)	(D)	7	(D)	-	-	-	-
California	40	5,566	3,665,629	23	2,283,964	-	-	19	1,381,666
Colorado	90	1,410	393,181	17	(D)	7	2,281	74	(D)
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	58	10,419	1,665,672	21	929,653	26	(D)	12	(D)
Georgia	4	970	36,899	4	(D)	2	(D)	-	-
Hawaii	6	50	(D)	-	-	5	(D)	1	(D)
Idaho	65	1,412	(D)	12	(D)	20	(D)	36	(D)
Illinois	5	1	125	-	-	5	125	-	-
Indiana	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-
Louisiana	10	480	436,640	2	(D)	2	(D)	8	(D)
Maine	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-
Michigan	6	6	978	6	978	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-
Mississippi	13	697	(D)	1	(D)	6	(D)	7	(D)
Missouri	-	-	-	-	-	-	-	-	-
Montana	20	78	(D)	-	-	5	(D)	15	(D)
Nebraska	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	6	(D)	1,955	-	-	6	1,955	-	-
New Mexico	66	412	(D)	65	33,714	10	(D)	12	(D)
New York	12	7	1,075	-	-	12	1,075	-	-
North Carolina	7	2	(D)	-	-	7	(D)	-	-
North Dakota	6	13	(D)	6	(D)	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-
Oregon	19	590	(D)	-	-	7	(D)	12	(D)
Pennsylvania	1	(D)	(D)	-	-	1	(D)	-	-
Rhode Island	11	8	253	11	253	-	-	-	-
South Carolina	9	1	(D)	9	(D)	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	7	15	3,772	7	3,772	-	-	-	-
Texas	32	1,378	(D)	19	154,851	-	-	21	(D)
Utah	18	379	(D)	-	-	-	-	18	(D)
Vermont	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-
Washington	15	1,201	988,007	4	(D)	-	-	11	(D)
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-
Wyoming	4	609	(D)	-	-	-	-	4	(D)
Water Resources Regions									
Region 01 New England	11	8	253	11	253	-	-	-	-
Region 02 Mid-Atlantic	12	24	(D)	-	-	12	(D)	-	-
Region 03 South Atlantic-Gulf	78	11,392	1,703,571	34	(D)	35	(D)	12	(D)
Region 04 Great Lakes	12	(D)	1,075	6	(D)	6	(D)	-	-
Region 05 Ohio	8	(D)	(D)	7	(D)	1	(D)	-	-
Region 06 Tennessee	7	2	(D)	-	-	-	-	7	(D)
Region 07 Upper Mississippi	5	1	(D)	-	-	5	(D)	-	-
Region 08 Lower Mississippi	23	1,207	1,036,193	10	(D)	8	(D)	8	(D)
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	52	1,228	275,676	14	(D)	-	-	44	(D)
Region 11 Arkansas-White-Red	44	220	12,313	44	12,313	-	-	-	-
Region 12 Texas-Gulf	32	1,378	(D)	19	(D)	-	-	21	(D)
Region 13 Rio Grande	24	272	(D)	23	(D)	10	(D)	14	(D)
Region 14 Upper Colorado	61	789	(D)	7	27,371	7	(D)	47	(D)
Region 15 Lower Colorado	64	2,915	4,281,682	1	(D)	1	(D)	64	2,940,479
Region 16 Great Basin	18	379	(D)	-	-	-	-	18	(D)
Region 17 Pacific Northwest	104	3,215	1,877,188	16	(D)	32	(D)	59	1,741,864
Region 18 California	40	5,566	3,665,629	23	2,283,964	-	-	19	1,381,666
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	6	50	(D)	-	-	5	(D)	1	(D)

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Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Sprinkler								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	9,147	361,685	135,078,044	6,092	90,235,447	2,102	23,364,935	1,891	21,477,662
2008	10,583	412,421	135,275,186	6,977	76,076,598	3,628	41,948,780	1,880	17,249,807
2013 DATA									
Alabama	186	14,937	3,396,091	120	2,173,518	56	1,155,210	19	67,363
Alaska	5	27	(D)	1	(D)	-	-	4	(D)
Arizona	22	3,430	4,923,032	7	(D)	3	(D)	16	1,108,881
Arkansas	88	20,551	2,869,193	44	2,396,983	15	358,601	37	113,609
California	1,147	46,349	27,483,844	852	16,242,777	59	2,634,428	354	8,606,639
Colorado	357	7,415	4,795,977	120	3,398,491	42	(D)	211	(D)
Connecticut	115	1,822	(D)	91	348,446	31	(D)	18	(D)
Delaware	3	339	(D)	2	(D)	1	(D)	-	-
Florida	1,585	33,853	11,459,647	1,347	8,419,439	270	(D)	79	(D)
Georgia	163	9,544	2,522,899	143	1,860,040	31	(D)	2	(D)
Hawaii	252	1,117	363,376	6	5,100	22	12,696	235	345,580
Idaho	124	3,121	2,383,056	48	(D)	12	(D)	66	1,571,302
Illinois	157	6,771	1,219,059	106	779,981	62	439,028	5	50
Indiana	79	2,445	677,885	57	569,196	23	107,929	5	760
Iowa	46	934	170,904	31	144,002	12	26,754	10	148
Kansas	30	3,082	866,277	21	661,620	9	203,188	7	1,470
Kentucky	67	528	80,957	12	14,381	18	58,676	37	7,900
Louisiana	259	3,867	1,223,233	215	897,773	31	(D)	37	(D)
Maine	46	453	(D)	29	(D)	16	(D)	12	(D)
Maryland	81	7,738	943,882	66	800,084	17	73,775	4	70,022
Massachusetts	164	1,813	310,599	79	(D)	62	198,094	48	(D)
Michigan	319	18,224	3,317,897	221	1,939,861	133	1,177,942	31	200,094
Minnesota	100	3,698	1,276,413	85	(D)	36	(D)	4	(D)
Mississippi	87	2,307	(D)	61	(D)	22	(D)	8	4,332
Missouri	45	1,305	(D)	20	(D)	11	273,768	16	(D)
Montana	49	951	290,010	30	181,902	17	(D)	8	(D)
Nebraska	73	1,437	575,597	64	527,840	3	4,727	12	43,031
Nevada	7	362	399,493	7	399,493	-	-	-	-
New Hampshire	37	110	(D)	19	(D)	18	(D)	1	(D)
New Jersey	254	13,375	2,492,606	203	1,850,148	72	640,828	5	1,629
New Mexico	17	855	(D)	17	(D)	1	(D)	2	(D)
New York	206	6,140	803,828	139	700,375	41	46,290	57	57,163
North Carolina	375	5,340	1,607,490	218	266,786	170	1,150,938	33	189,766
North Dakota	13	588	(D)	6	(D)	6	(D)	1	(D)
Ohio	168	6,199	1,326,222	58	498,101	99	540,348	32	287,773
Oklahoma	43	18,262	6,270,211	37	5,605,244	6	301,429	7	363,537
Oregon	683	24,599	10,187,732	425	5,854,534	138	2,624,829	195	1,708,368
Pennsylvania	183	1,419	(D)	138	83,582	44	(D)	13	(D)
Rhode Island	53	1,868	238,735	10	31,100	19	188,043	24	19,592
South Carolina	166	5,553	1,002,195	108	784,991	78	(D)	17	(D)
South Dakota	6	296	(D)	5	(D)	1	(D)	-	-
Tennessee	126	5,756	1,110,115	44	632,965	67	471,292	27	5,858
Texas	367	50,869	28,452,383	270	22,204,402	104	3,542,661	56	2,705,319
Utah	81	3,282	1,734,837	42	(D)	2	(D)	47	(D)
Vermont	34	78	9,483	16	1,303	10	7,311	8	869
Virginia	222	6,715	2,260,226	150	568,180	92	1,689,021	15	3,025
Washington	231	4,503	2,250,483	144	747,355	39	239,917	59	1,263,210
West Virginia	26	307	32,771	15	29,187	11	3,584	-	-
Wisconsin	186	6,943	1,042,823	140	974,813	64	68,010	-	-
Wyoming	14	210	(D)	3	2,933	6	(D)	7	48,078
Water Resources Regions									
Region 01 New England	423	6,073	1,157,684	228	(D)	146	(D)	111	(D)
Region 02 Mid-Atlantic	826	34,797	6,517,280	637	4,038,709	217	2,365,878	47	112,693
Region 03 South Atlantic-Gulf	2,547	70,191	20,006,373	1,983	13,559,547	639	5,125,855	159	1,320,971
Region 04 Great Lakes	510	22,088	4,121,296	321	2,054,902	204	1,638,533	69	427,861
Region 05 Ohio	372	9,426	1,917,281	148	1,196,603	171	(D)	79	(D)
Region 06 Tennessee	105	4,235	(D)	56	261,617	33	(D)	23	(D)
Region 07 Upper Mississippi	437	17,280	3,921,608	337	2,952,071	145	953,068	24	16,470
Region 08 Lower Mississippi	279	6,529	2,428,368	214	1,786,479	45	(D)	52	(D)
Region 09 Souris-Red-Rainy	18	534	74,419	6	68,616	12	5,803	-	-
Region 10 Missouri	455	9,139	4,134,105	195	2,934,686	69	(D)	225	(D)
Region 11 Arkansas-White-Red	183	41,401	10,291,413	120	9,221,124	42	657,818	36	412,471
Region 12 Texas-Gulf	349	50,472	28,347,192	271	22,205,054	85	3,436,819	56	2,705,319
Region 13 Rio Grande	18	895	(D)	18	(D)	1	(D)	4	(D)
Region 14 Upper Colorado	29	1,153	1,150,493	4	(D)	7	(D)	18	(D)
Region 15 Lower Colorado	30	3,446	4,932,156	15	(D)	3	(D)	24	1,113,443
Region 16 Great Basin	103	3,940	2,368,474	57	1,267,874	2	(D)	54	(D)
Region 17 Pacific Northwest	1,075	32,624	14,843,342	639	7,520,030	200	2,942,085	325	4,381,226
Region 18 California	1,131	46,317	27,468,672	836	16,232,167	59	2,634,428	346	8,602,077
Region 19 Alaska	5	27	(D)	1	(D)	-	-	4	(D)
Region 20 Hawaii	252	1,117	363,376	6	5,100	22	12,696	235	345,580

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Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Drip, trickle, or low-flow micro irrigation								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	6,461	131,006	53,326,941	4,360	21,809,523	966	3,567,399	1,633	27,950,019
2008	7,153	183,569	56,058,674	5,019	19,617,193	1,627	4,641,396	1,448	31,800,085
2013 DATA									
Alabama	74	1,751	266,473	50	219,496	11	41,274	21	5,702
Alaska	15	26	1,391	10	(D)	5	(D)	-	-
Arizona	97	566	351,996	89	138,215	19	1,238	10	212,543
Arkansas	31	41	(D)	24	(D)	-	-	7	1,955
California	1,127	20,251	10,673,184	631	5,041,260	58	297,197	574	5,334,727
Colorado	78	520	144,860	19	(D)	27	(D)	58	98,242
Connecticut	78	319	77,785	64	(D)	11	(D)	3	(D)
Delaware	13	261	(D)	3	(D)	10	(D)	-	-
Florida	857	15,277	3,624,054	728	3,188,259	120	(D)	44	(D)
Georgia	106	4,061	828,639	83	(D)	18	(D)	7	(D)
Hawaii	152	485	129,187	-	-	22	(D)	130	(D)
Idaho	101	798	98,095	45	16,536	21	(D)	46	(D)
Illinois	74	1,593	188,090	48	122,553	25	59,672	12	5,865
Indiana	99	389	39,323	77	18,038	17	21,230	5	54
Iowa	48	122	34,025	15	795	12	30,464	21	2,767
Kansas	34	163	59,113	22	43,472	4	5,735	8	9,906
Kentucky	82	127	21,221	16	7,257	16	3,999	55	9,965
Louisiana	44	205	27,713	28	(D)	8	(D)	8	1,848
Maine	49	83	(D)	37	(D)	1	(D)	11	(D)
Maryland	59	1,311	125,386	45	106,928	15	18,458	-	-
Massachusetts	71	228	(D)	43	(D)	7	1,825	42	18,759
Michigan	261	3,959	366,965	230	330,948	36	31,602	31	4,415
Minnesota	52	891	(D)	47	(D)	5	(D)	-	-
Mississippi	40	823	(D)	21	(D)	7	1,701	13	(D)
Missouri	59	689	(D)	37	(D)	16	(D)	6	(D)
Montana	13	79	22,458	5	2,400	3	19,958	5	100
Nebraska	80	921	104,924	71	87,889	3	1,221	12	15,815
Nevada	3	38	13,127	3	13,127	-	-	-	-
New Hampshire	53	62	(D)	53	(D)	-	-	-	-
New Jersey	199	2,835	311,956	168	290,496	16	17,809	15	3,651
New Mexico	13	176	(D)	13	(D)	1	(D)	-	-
New York	168	594	115,641	109	106,695	11	1,211	48	7,735
North Carolina	173	942	232,717	95	61,621	82	147,789	23	23,308
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	132	1,742	254,347	77	(D)	52	(D)	15	(D)
Oklahoma	58	3,565	649,879	25	618,355	11	9,240	25	22,284
Oregon	287	32,408	22,749,850	197	3,076,865	53	(D)	72	(D)
Pennsylvania	332	817	(D)	244	(D)	84	(D)	37	5,446
Rhode Island	50	137	(D)	22	(D)	6	(D)	22	(D)
South Carolina	114	15,335	3,243,223	96	2,838,675	15	(D)	6	(D)
South Dakota	8	4	(D)	-	-	-	-	8	(D)
Tennessee	63	1,117	260,037	35	126,283	11	113,017	29	20,737
Texas	459	7,433	3,519,375	353	3,274,211	49	(D)	98	(D)
Utah	39	180	(D)	-	-	-	-	39	(D)
Vermont	16	5	2,484	16	2,484	-	-	-	-
Virginia	211	1,396	325,330	188	245,783	33	79,547	-	-
Washington	146	5,470	3,210,486	68	261,442	21	(D)	58	(D)
West Virginia	11	11	3,584	11	3,584	-	-	-	-
Wisconsin	124	796	82,053	99	79,992	20	(D)	5	(D)
Wyoming	8	5	2,907	-	-	4	1,707	4	1,200
Water Resources Regions									
Region 01 New England	301	829	140,171	219	(D)	25	(D)	78	(D)
Region 02 Mid-Atlantic	808	6,858	988,068	663	857,068	115	(D)	58	(D)
Region 03 South Atlantic-Gulf	1,334	37,353	8,227,792	1,064	6,766,334	243	1,348,239	99	113,218
Region 04 Great Lakes	450	5,304	535,119	360	361,951	64	(D)	67	(D)
Region 05 Ohio	347	1,942	(D)	164	118,700	114	227,846	97	(D)
Region 06 Tennessee	68	684	(D)	44	(D)	12	2,308	28	18,661
Region 07 Upper Mississippi	289	3,369	474,876	200	(D)	62	(D)	38	9,064
Region 08 Lower Mississippi	83	883	(D)	61	(D)	14	6,843	8	1,848
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	165	1,658	309,194	103	(D)	23	(D)	57	(D)
Region 11 Arkansas-White-Red	114	3,785	703,795	62	665,006	23	14,550	32	24,239
Region 12 Texas-Gulf	452	7,443	3,519,604	354	3,274,536	41	(D)	98	(D)
Region 13 Rio Grande	12	166	(D)	12	(D)	1	(D)	-	-
Region 14 Upper Colorado	58	436	(D)	6	4,147	27	(D)	39	(D)
Region 15 Lower Colorado	105	574	356,558	97	(D)	19	1,238	18	(D)
Region 16 Great Basin	42	218	70,406	3	13,127	-	-	39	57,279
Region 17 Pacific Northwest	547	38,755	26,080,889	315	3,357,243	98	930,712	181	21,792,934
Region 18 California	1,119	20,243	10,668,622	623	5,038,979	58	297,197	566	5,332,446
Region 19 Alaska	15	26	1,391	10	(D)	5	(D)	-	-
Region 20 Hawaii	152	485	129,187	-	-	22	(D)	130	(D)

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Table 43. **Estimated Quantity of Water Applied to Crops Grown in the Open on Irrigated Horticultural Operations by Method of Distribution and Water Source: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Subirrigation (including hydroponic)								
				Water source					
				Ground water from wells		On-farm surface water		Off-farm water (all suppliers)	
	Operations	Acres irrigated	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)	Operations	Gallons applied (1,000)
United States 2013	79	2,153	743,605	46	532,244	19	208,905	16	2,456
2008	238	15,420	4,789,688	135	(D)	77	(D)	55	(D)
2013 DATA									
Alabama	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-
California	19	20	6,692	3	4,236	-	-	16	2,456
Colorado	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-
Florida	19	2,058	680,088	10	509,831	11	170,257	-	-
Georgia	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Idaho	8	1	26	8	26	-	-	-	-
Illinois	6	12	13,686	6	13,686	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-
New York	-	-	-	-	-	-	-	-	-
North Carolina	14	49	(D)	6	(D)	8	38,648	-	-
North Dakota	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-
Oregon	6	6	3,910	6	3,910	-	-	-	-
Pennsylvania	7	7	(D)	7	(D)	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-
Texas	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-
Water Resources Regions									
Region 01 New England	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	7	7	(D)	7	(D)	-	-	-	-
Region 03 South Atlantic-Gulf	33	2,107	(D)	16	(D)	19	208,905	-	-
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-
Region 05 Ohio	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	6	12	(D)	6	(D)	-	-	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-
Region 10 Missouri	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red	-	-	-	-	-	-	-	-	-
Region 12 Texas-Gulf	-	-	-	-	-	-	-	-	-
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest	14	7	3,936	14	3,936	-	-	-	-
Region 18 California	19	20	6,692	3	4,236	-	-	16	2,456
Region 19 Alaska	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-

Table 44. **Discontinuance of All Irrigation on Horticultural Operations by Reason: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Discontinued irrigation since 2012		Operations reporting reason for discontinuance [1]				
	Operations	Square feet under protection in previous census year [2]	Operations reporting discontinuance to be permanent	Sufficient soil moisture	Shortage of surface water	Shortage of ground water	Irrigation is uneconomical
United States 2013	4,393	11,759,756	623	1,178	114	53	237
2008	839	(NA)	63	547	4	6	42
2013 DATA							
Alabama	21	11,200	-	8	-	-	-
Alaska	23	216,252	9	9	-	-	5
Arizona	-	-	-	-	-	-	-
Arkansas	20	2,100	-	12	-	4	-
California	115	48,000	24	-	24	16	8
Colorado	21	39,234	-	-	-	-	-
Connecticut	94	286,495	7	31	-	-	-
Delaware	-	-	-	-	-	-	-
Florida	318	387,360	60	69	5	-	57
Georgia	70	139,006	12	35	7	-	2
Hawaii	114	113,197	5	34	6	-	6
Idaho	24	-	8	8	8	-	-
Illinois	93	242,940	21	27	5	5	11
Indiana	124	616,135	38	48	-	-	5
Iowa	103	269,744	17	17	-	-	5
Kansas	23	23,904	-	-	-	-	-
Kentucky	274	883,005	35	91	6	-	18
Louisiana	38	78,216	10	-	-	-	2
Maine	61	142,782	8	10	-	-	-
Maryland	49	197,112	11	16	-	-	-
Massachusetts	38	2,856	7	7	-	-	-
Michigan	186	687,933	14	23	-	-	-
Minnesota	87	148,440	6	-	5	-	-
Mississippi	25	144,000	6	12	-	-	-
Missouri	120	288,248	31	14	5	4	5
Montana	28	39,180	5	5	-	-	5
Nebraska	29	1,248	-	6	-	-	6
Nevada	-	-	-	-	-	-	-
New Hampshire	9	3,840	1	1	-	-	1
New Jersey	102	79,195	14	41	5	-	5
New Mexico	2	-	-	-	-	-	-
New York	342	751,875	22	106	12	6	18
North Carolina	225	885,301	26	108	6	-	-
North Dakota	-	-	-	-	-	-	-
Ohio	245	1,403,217	31	74	5	5	9
Oklahoma	2	-	-	-	-	-	-
Oregon	161	159,524	17	62	-	-	-
Pennsylvania	321	1,158,335	62	100	6	-	33
Rhode Island	-	-	-	-	-	-	-
South Carolina	45	6,300	17	8	-	-	9
South Dakota	2	-	-	-	-	-	-
Tennessee	126	299,973	15	33	-	-	-
Texas	99	60,240	15	14	8	8	-
Utah	7	1,260	-	-	-	-	-
Vermont	47	127,463	8	8	-	-	-
Virginia	101	193,716	7	24	1	-	7
Washington	210	620,377	33	64	-	5	5
West Virginia	46	212,250	5	-	-	-	-
Wisconsin	203	788,303	16	53	-	-	15
Wyoming	-	-	-	-	-	-	-
Water Resources Regions							
Region 01 New England	217	457,897	23	57	-	-	1
Region 02 Mid-Atlantic	609	1,747,147	81	163	12	-	31
Region 03 South Atlantic-Gulf	682	1,359,411	128	225	18	-	75
Region 04 Great Lakes	575	1,813,087	62	170	12	6	27
Region 05 Ohio	737	3,099,816	111	217	11	5	35
Region 06 Tennessee	94	309,629	5	36	-	-	-
Region 07 Upper Mississippi	422	1,228,824	50	71	15	5	26
Region 08 Lower Mississippi	75	151,941	13	16	-	4	-
Region 09 Souris-Red-Rainy	18	18,348	-	-	-	-	-
Region 10 Missouri	143	276,752	37	26	-	4	16
Region 11 Arkansas-White-Red	42	38,904	2	6	-	-	2
Region 12 Texas-Gulf	103	60,240	15	14	8	8	-
Region 13 Rio Grande	2	-	-	-	-	-	-
Region 14 Upper Colorado	12	39,150	-	-	-	-	-
Region 15 Lower Colorado	-	-	-	-	-	-	-
Region 16 Great Basin	7	1,260	-	-	-	-	-
Region 17 Pacific Northwest	403	779,901	58	134	8	5	5
Region 18 California	115	48,000	24	-	24	16	8
Region 19 Alaska	23	216,252	9	9	-	-	5
Region 20 Hawaii	114	113,197	5	34	6	-	6

See footnote(s) at end of table.

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Table 44. **Discontinuance of All Irrigation on Horticultural Operations by Reason: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	Operations reporting reason for discontinuance [1] - con.							
	Loss of water rights	Sold or leased water rights or annual water allocation	Sold or leased irrigated land or irrigated area under protection	Restrictions on water use	Converted to non-agricultural use	Converted to agricultural enterprise not requiring irrigation	Available surface water too salty	Other
United States 2013	9	31	48	110	63	204	27	3,005
2008	(NA)	(NA)	(NA)	5	(NA)	2	7	259
2013 DATA								
Alabama	-	-	-	-	-	8	-	5
Alaska	-	-	-	-	-	5	-	18
Arizona	-	-	-	-	-	-	-	-
Arkansas	-	-	-	4	-	-	-	4
California	-	-	-	-	8	-	-	99
Colorado	-	-	-	6	-	-	7	8
Connecticut	-	-	-	-	-	-	7	77
Delaware	-	-	-	-	-	-	-	-
Florida	9	16	26	23	1	22	-	157
Georgia	-	-	-	-	-	-	-	28
Hawaii	-	-	-	6	-	-	-	85
Idaho	-	-	-	8	-	-	-	8
Illinois	-	-	-	-	-	6	-	61
Indiana	-	-	-	-	-	-	-	86
Iowa	-	-	-	-	10	11	-	65
Kansas	-	-	-	-	8	-	-	15
Kentucky	-	-	1	-	-	16	-	154
Louisiana	-	-	-	-	-	8	-	28
Maine	-	9	-	-	-	-	-	51
Maryland	-	-	-	-	-	-	-	33
Massachusetts	-	-	-	-	-	-	1	30
Michigan	-	-	-	-	-	5	-	163
Minnesota	-	-	-	-	-	6	-	82
Mississippi	-	-	-	-	-	-	-	19
Missouri	-	-	-	-	5	16	-	81
Montana	-	-	-	-	-	-	-	28
Nebraska	-	-	-	-	-	-	-	23
Nevada	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	8
New Jersey	-	-	-	-	5	2	-	59
New Mexico	-	-	-	-	-	-	-	2
New York	-	6	11	30	-	-	12	231
North Carolina	-	-	-	-	-	13	-	137
North Dakota	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	5	5	-	179
Oklahoma	-	-	-	-	-	-	-	2
Oregon	-	-	5	11	6	6	-	88
Pennsylvania	-	-	-	14	-	31	-	244
Rhode Island	-	-	-	-	-	-	-	-
South Carolina	-	-	-	8	9	-	-	27
South Dakota	-	-	-	-	-	-	-	2
Tennessee	-	-	-	-	1	-	-	97
Texas	-	-	-	-	-	7	-	69
Utah	-	-	-	-	-	-	-	7
Vermont	-	-	-	-	-	8	-	31
Virginia	-	-	-	-	-	8	-	61
Washington	-	-	-	-	5	21	-	157
West Virginia	-	-	-	-	-	-	-	46
Wisconsin	-	-	5	-	-	-	-	150
Wyoming	-	-	-	-	-	-	-	-
Water Resources Regions								
Region 01 New England	-	9	-	-	-	-	8	173
Region 02 Mid-Atlantic	-	6	6	7	5	26	6	480
Region 03 South Atlantic-Gulf	9	16	26	31	10	44	-	339
Region 04 Great Lakes	-	-	5	30	5	18	6	396
Region 05 Ohio	-	-	1	7	-	23	-	491
Region 06 Tennessee	-	-	-	-	1	7	-	74
Region 07 Upper Mississippi	-	-	5	-	5	23	-	315
Region 08 Lower Mississippi	-	-	-	4	-	8	-	47
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	18
Region 10 Missouri	-	-	-	-	10	11	7	100
Region 11 Arkansas-White-Red	-	-	-	-	8	5	-	21
Region 12 Texas-Gulf	-	-	-	-	-	7	-	73
Region 13 Rio Grande	-	-	-	-	-	-	-	2
Region 14 Upper Colorado	-	-	-	6	-	-	-	6
Region 15 Lower Colorado	-	-	-	-	-	-	-	-
Region 16 Great Basin	-	-	-	-	-	-	-	7
Region 17 Pacific Northwest	-	-	5	19	11	27	-	261
Region 18 California	-	-	-	-	8	-	-	99
Region 19 Alaska	-	-	-	-	-	5	-	18
Region 20 Hawaii	-	-	-	6	-	-	-	85

[1] Respondents could choose more than one reason for not irrigating.

Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008**

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area	All operations with irrigated horticulture					
	Under protection			In the open		
	Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States 2013	24,829	1,407,631,360	1,405,381,805	16,923	629,548	524,227
2008	20,610	1,423,578,687	1,369,090,815	18,797	791,987	579,633
2013 DATA						
Alabama	301	25,455,310	25,455,310	283	18,405	16,723
Alaska	139	1,731,548	1,731,548	29	58	56
Arizona	205	17,572,080	17,572,080	234	6,950	6,947
Arkansas	176	3,953,942	3,953,942	124	20,806	20,624
California	1,569	243,531,183	243,531,183	2,443	72,921	72,333
Colorado	241	13,702,377	13,702,377	517	9,468	9,332
Connecticut	473	30,922,369	30,922,369	206	2,355	2,151
Delaware	72	265,160	265,160	16	611	600
Florida	1,789	369,783,392	369,783,392	2,328	76,458	61,890
Georgia	446	22,415,692	22,415,692	335	14,970	14,681
Hawaii	612	23,942,112	23,942,112	476	2,224	1,806
Idaho	179	2,556,909	2,556,909	291	(D)	(D)
Illinois	467	18,295,306	18,295,306	251	12,302	8,173
Indiana	471	7,450,681	7,450,681	186	4,450	2,880
Iowa	364	8,839,112	8,839,112	102	2,097	1,063
Kansas	192	8,074,504	8,074,504	64	3,653	3,245
Kentucky	552	10,921,192	10,918,317	161	1,368	673
Louisiana	319	8,152,878	8,152,878	329	5,198	4,557
Maine	651	10,607,864	10,607,864	143	812	588
Maryland	343	13,852,007	13,852,007	141	9,834	8,871
Massachusetts	613	10,926,750	10,926,750	263	2,326	2,116
Michigan	1,070	53,420,899	53,296,819	573	44,528	22,294
Minnesota	485	23,834,480	23,831,980	160	7,360	4,491
Mississippi	149	2,918,426	2,918,426	181	4,038	3,871
Missouri	556	8,469,932	8,469,932	113	2,976	2,004
Montana	284	2,458,858	2,458,858	89	1,230	1,159
Nebraska	187	2,057,548	2,057,548	165	3,110	2,397
Nevada	19	359,200	359,200	10	400	400
New Hampshire	351	5,660,877	5,660,877	105	196	195
New Jersey	527	34,930,178	34,930,178	484	20,255	16,272
New Mexico	168	886,778	886,778	102	1,484	1,484
New York	1,066	38,211,640	38,211,640	516	9,700	6,906
North Carolina	1,073	36,315,699	36,315,699	554	11,734	6,292
North Dakota	42	919,488	919,488	19	613	613
Ohio	710	32,573,918	32,573,918	324	13,562	7,911
Oklahoma	212	11,727,548	11,723,148	111	24,994	21,828
Oregon	910	44,592,359	44,589,359	925	(D)	(D)
Pennsylvania	1,820	34,643,884	34,643,884	577	9,400	2,368
Rhode Island	197	1,438,186	1,438,186	90	2,429	2,157
South Carolina	264	5,194,705	3,082,705	255	22,235	20,888
South Dakota	140	1,300,058	1,300,058	48	482	372
Tennessee	483	37,454,409	37,454,409	196	10,069	6,937
Texas	748	89,427,943	89,427,943	845	63,408	59,854
Utah	154	18,539,818	18,539,818	129	3,918	3,886
Vermont	353	2,865,406	2,865,406	119	318	163
Virginia	768	36,117,321	36,117,321	429	11,458	8,160
Washington	957	7,997,166	7,997,166	477	11,725	11,260
West Virginia	184	2,003,960	2,003,960	52	914	344
Wisconsin	741	18,037,368	18,036,668	327	15,080	7,537
Wyoming	37	320,940	320,940	26	833	832
Water Resources Regions						
Region 01 New England	2,408	60,433,198	60,433,198	839	8,177	7,251
Region 02 Mid-Atlantic	3,577	115,035,065	115,035,065	1,789	56,422	41,759
Region 03 South Atlantic-Gulf	3,874	472,876,723	470,764,723	3,886	144,516	121,477
Region 04 Great Lakes	2,413	118,269,679	118,145,599	1,111	55,324	27,658
Region 05 Ohio	2,135	59,732,476	59,729,601	795	21,763	11,573
Region 06 Tennessee	532	8,897,441	8,897,441	170	5,970	4,925
Region 07 Upper Mississippi	1,718	45,904,953	45,904,253	724	34,656	20,085
Region 08 Lower Mississippi	482	13,975,098	13,975,098	406	9,772	8,623
Region 09 Souris-Red-Rainy	75	8,391,544	8,391,544	23	549	549
Region 10 Missouri	1,199	33,025,926	33,023,426	704	13,927	12,188
Region 11 Arkansas-White-Red	619	20,248,393	20,243,993	355	48,819	45,415
Region 12 Texas-Gulf	707	87,455,543	87,455,543	827	63,022	59,467
Region 13 Rio Grande	163	827,838	827,838	59	1,314	1,314
Region 14 Upper Colorado	98	981,198	981,198	148	2,392	2,386
Region 15 Lower Colorado	192	17,562,380	17,562,380	242	6,974	6,971
Region 16 Great Basin	152	18,528,442	18,528,442	162	4,617	4,585
Region 17 Pacific Northwest	2,149	55,240,936	55,237,936	1,751	76,173	73,847
Region 18 California	1,585	244,570,867	244,570,867	2,427	72,881	72,293
Region 19 Alaska	139	1,731,548	1,731,548	29	58	56
Region 20 Hawaii	612	23,942,112	23,942,112	476	2,224	1,806

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$0 - $9,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	6,333	16,206,155	16,195,555	4,259	10,197	8,763
	2008	2,398	5,242,090	4,693,599	2,851	6,000	4,824
2013 DATA							
Alabama		91	282,094	282,094	64	79	79
Alaska		77	121,924	121,924	15	(D)	(D)
Arizona		41	20,080	20,080	41	69	69
Arkansas		71	128,706	128,706	12	5	4
California		317	704,708	704,708	553	864	847
Colorado		65	108,369	108,369	173	493	487
Connecticut		118	(D)	(D)	29	29	29
Delaware		28	48,360	48,360	-	-	-
Florida		289	1,391,915	1,391,915	808	3,503	3,018
Georgia		116	575,242	575,242	71	162	162
Hawaii		162	794,550	794,550	158	177	163
Idaho		69	80,514	80,514	180	395	395
Illinois		86	338,672	338,672	56	105	87
Indiana		122	313,846	313,846	31	59	(D)
Iowa		88	301,120	301,120	16	10	10
Kansas		41	102,368	102,368	17	63	53
Kentucky		99	211,468	211,468	48	64	54
Louisiana		104	159,904	159,904	69	79	75
Maine		204	402,650	402,650	38	44	44
Maryland		73	460,892	460,892	11	6	6
Massachusetts		94	(D)	(D)	30	51	51
Michigan		209	644,864	644,864	85	161	161
Minnesota		130	383,634	381,134	21	(D)	(D)
Mississippi		64	138,430	138,430	87	72	72
Missouri		112	197,470	197,470	38	(D)	(D)
Montana		148	209,108	209,108	43	158	116
Nebraska		41	(D)	(D)	25	93	(D)
Nevada		-	-	-	-	-	-
New Hampshire		83	190,943	190,943	26	20	20
New Jersey		50	324,550	324,550	100	311	182
New Mexico		67	(D)	(D)	20	215	215
New York		219	350,716	350,716	117	190	149
North Carolina		399	1,010,067	1,010,067	149	200	182
North Dakota		18	25,248	25,248	-	-	-
Ohio		136	388,245	388,245	50	97	62
Oklahoma		91	549,200	544,800	21	11	2
Oregon		292	596,800	593,800	301	773	(D)
Pennsylvania		294	941,884	941,884	69	125	89
Rhode Island		75	(D)	(D)	11	22	22
South Carolina		92	360,445	360,445	44	255	129
South Dakota		36	92,925	92,925	-	-	-
Tennessee		152	402,210	402,210	43	35	35
Texas		138	180,816	180,816	169	331	243
Utah		28	177,282	177,282	58	112	96
Vermont		126	(D)	(D)	22	19	19
Virginia		170	326,198	326,198	52	90	90
Washington		572	364,626	364,626	207	334	323
West Virginia		70	(D)	(D)	11	7	7
Wisconsin		149	457,891	457,191	61	201	50
Wyoming		17	26,940	26,940	9	(D)	(D)
Water Resources Regions							
Region 01 New England		612	(D)	(D)	134	166	166
Region 02 Mid-Atlantic		614	1,851,454	1,851,454	279	654	453
Region 03 South Atlantic-Gulf		910	3,273,276	3,273,276	1,198	4,241	3,612
Region 04 Great Lakes		461	1,323,408	1,323,408	163	223	223
Region 05 Ohio		549	1,417,214	1,417,214	162	256	171
Region 06 Tennessee		234	803,042	803,042	50	48	48
Region 07 Upper Mississippi		381	1,335,719	1,335,019	167	337	168
Region 08 Lower Mississippi		178	360,764	360,764	92	(D)	(D)
Region 09 Souris-Red-Rainy		33	51,364	51,364	5	(D)	(D)
Region 10 Missouri		333	493,217	490,717	152	276	223
Region 11 Arkansas-White-Red		201	776,051	771,651	52	111	92
Region 12 Texas-Gulf		158	196,816	196,816	169	331	243
Region 13 Rio Grande		58	(D)	(D)	20	(D)	(D)
Region 14 Upper Colorado		40	195,990	195,990	70	354	348
Region 15 Lower Colorado		28	10,380	10,380	49	93	93
Region 16 Great Basin		21	37,282	37,282	58	112	96
Region 17 Pacific Northwest		961	1,154,016	1,151,016	721	1,670	1,538
Region 18 California		322	714,392	714,392	545	840	823
Region 19 Alaska		77	121,924	121,924	15	(D)	(D)
Region 20 Hawaii		162	794,550	794,550	158	177	163

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$10,000 - $24,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	3,396	23,832,056	23,829,181	1,933	6,891	5,934
	2008	2,842	26,460,781	25,357,055	2,626	21,974	12,445
2013 DATA							
Alabama		32	633,280	633,280	25	41	37
Alaska		18	49,200	49,200	9	17	15
Arizona		39	80,800	80,800	77	201	201
Arkansas		18	61,248	61,248	18	10	4
California		135	1,292,760	1,292,760	210	559	559
Colorado		28	55,300	55,300	33	130	130
Connecticut		44	(D)	(D)	22	26	26
Delaware		-	-	-	11	88	88
Florida		234	4,214,120	4,214,120	309	1,318	1,197
Georgia		56	369,054	369,054	40	174	174
Hawaii		81	1,148,240	1,148,240	72	101	65
Idaho		34	75,111	75,111	17	(D)	(D)
Illinois		35	118,320	118,320	11	37	37
Indiana		59	252,410	252,410	22	97	79
Iowa		73	592,500	592,500	5	1	1
Kansas		8	24,000	24,000	2	(D)	(D)
Kentucky		136	947,594	944,719	22	13	13
Louisiana		50	792,960	792,960	67	278	210
Maine		177	1,043,306	1,043,306	16	(D)	(D)
Maryland		87	363,851	363,851	22	63	63
Massachusetts		66	232,980	232,980	23	39	39
Michigan		135	581,896	581,896	73	292	277
Minnesota		31	125,110	125,110	20	17	12
Mississippi		25	312,840	312,840	18	113	113
Missouri		117	699,820	699,820	-	-	-
Montana		40	132,580	132,580	13	161	141
Nebraska		34	(D)	(D)	26	89	61
Nevada		-	-	-	-	-	-
New Hampshire		77	209,254	209,254	9	(D)	(D)
New Jersey		74	621,810	621,810	76	472	414
New Mexico		-	-	-	-	-	-
New York		132	518,016	518,016	70	183	75
North Carolina		162	904,526	904,526	73	100	97
North Dakota		-	-	-	6	13	13
Ohio		107	421,234	421,234	44	93	58
Oklahoma		20	220,000	220,000	-	-	-
Oregon		140	1,019,235	1,019,235	115	(D)	(D)
Pennsylvania		222	751,772	751,772	87	301	142
Rhode Island		48	192,052	192,052	15	(D)	(D)
South Carolina		47	433,460	433,460	49	284	269
South Dakota		44	151,509	151,509	8	4	4
Tennessee		57	1,435,340	1,435,340	19	12	12
Texas		68	905,756	905,756	38	247	231
Utah		7	18,564	18,564	7	7	7
Vermont		45	(D)	(D)	8	(D)	(D)
Virginia		148	762,426	762,426	52	74	74
Washington		68	198,260	198,260	39	140	50
West Virginia		29	(D)	(D)	6	(D)	(D)
Wisconsin		105	508,240	508,240	29	280	220
Wyoming		4	10,000	10,000	-	-	-
Water Resources Regions							
Region 01 New England		433	(D)	(D)	85	106	106
Region 02 Mid-Atlantic		490	1,965,370	1,965,370	233	1,010	793
Region 03 South Atlantic-Gulf		541	6,951,494	6,951,494	514	2,026	1,888
Region 04 Great Lakes		330	1,451,268	1,451,268	165	613	401
Region 05 Ohio		365	2,952,173	2,949,298	99	139	121
Region 06 Tennessee		78	(D)	(D)	25	30	26
Region 07 Upper Mississippi		203	1,034,650	1,034,650	55	255	244
Region 08 Lower Mississippi		56	806,160	806,160	65	209	197
Region 09 Souris-Red-Rainy		5	7,600	7,600	-	-	-
Region 10 Missouri		223	1,167,069	1,167,069	57	207	179
Region 11 Arkansas-White-Red		55	322,588	322,588	22	115	53
Region 12 Texas-Gulf		68	905,756	905,756	38	247	231
Region 13 Rio Grande		-	-	-	-	-	-
Region 14 Upper Colorado		7	8,400	8,400	19	78	78
Region 15 Lower Colorado		39	80,800	80,800	77	201	201
Region 16 Great Basin		7	18,564	18,564	7	7	7
Region 17 Pacific Northwest		262	1,374,686	1,374,686	181	973	774
Region 18 California		135	1,292,760	1,292,760	210	559	559
Region 19 Alaska		18	49,200	49,200	9	17	15
Region 20 Hawaii		81	1,148,240	1,148,240	72	101	65

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$25,000 - $49,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	2,733	28,811,959	28,811,959	1,831	11,457	8,967
	2008	2,691	31,644,424	30,878,885	2,034	13,534	9,709
2013 DATA							
Alabama		29	515,940	515,940	14	193	58
Alaska		19	51,980	51,980	-	-	-
Arizona		-	-	-	19	38	38
Arkansas		18	33,960	33,960	12	42	42
California		112	1,646,720	1,646,720	153	549	549
Colorado		14	150,500	150,500	189	152	152
Connecticut		50	(D)	(D)	28	52	32
Delaware		20	33,000	33,000	1	(D)	(D)
Florida		126	6,085,320	6,085,320	111	833	833
Georgia		42	379,260	379,260	21	42	42
Hawaii		107	3,703,920	3,703,920	76	305	281
Idaho		24	208,224	208,224	16	5	5
Illinois		69	593,834	593,834	11	11	7
Indiana		73	484,170	484,170	33	75	51
Iowa		39	212,960	212,960	12	135	65
Kansas		36	87,288	87,288	-	-	-
Kentucky		82	654,904	654,904	21	21	21
Louisiana		-	-	-	27	133	133
Maine		84	520,360	520,360	36	29	29
Maryland		25	112,100	112,100	5	100	100
Massachusetts		80	(D)	(D)	36	65	51
Michigan		134	627,564	627,564	91	873	555
Minnesota		41	277,962	277,962	2	(D)	(D)
Mississippi		19	241,260	241,260	14	70	70
Missouri		101	391,990	391,990	12	156	36
Montana		19	23,350	23,350	5	(D)	(D)
Nebraska		35	(D)	(D)	39	(D)	(D)
Nevada		18	(D)	(D)	-	-	-
New Hampshire		35	225,452	225,452	16	32	32
New Jersey		45	625,696	625,696	24	496	496
New Mexico		30	(D)	(D)	54	(D)	(D)
New York		127	874,690	874,690	73	319	186
North Carolina		100	1,861,648	1,861,648	55	113	113
North Dakota		-	-	-	-	-	-
Ohio		84	361,729	361,729	35	378	82
Oklahoma		9	14,580	14,580	8	760	760
Oregon		77	852,060	852,060	93	893	845
Pennsylvania		272	1,694,347	1,694,347	79	432	89
Rhode Island		22	100,100	100,100	-	-	-
South Carolina		12	25,400	25,400	13	66	66
South Dakota		8	16,000	16,000	-	-	-
Tennessee		57	782,795	782,795	28	363	238
Texas		78	505,504	505,504	202	2,270	2,200
Utah		-	-	-	-	-	-
Vermont		54	(D)	(D)	16	5	5
Virginia		104	784,732	784,732	54	492	65
Washington		83	437,220	437,220	45	343	91
West Virginia		32	(D)	(D)	15	6	6
Wisconsin		88	426,660	426,660	36	62	37
Wyoming		-	-	-	1	(D)	(D)
Water Resources Regions							
Region 01 New England		295	(D)	(D)	116	178	144
Region 02 Mid-Atlantic		438	2,810,083	2,810,083	188	1,656	832
Region 03 South Atlantic-Gulf		331	9,125,138	9,125,138	229	1,304	1,169
Region 04 Great Lakes		288	1,526,244	1,526,244	178	1,113	689
Region 05 Ohio		276	2,043,683	2,043,683	88	617	172
Region 06 Tennessee		77	(D)	(D)	18	210	210
Region 07 Upper Mississippi		227	1,513,976	1,513,976	54	270	156
Region 08 Lower Mississippi		24	233,560	233,560	38	188	188
Region 09 Souris-Red-Rainy		5	4,340	4,340	-	-	-
Region 10 Missouri		157	678,960	678,960	248	520	400
Region 11 Arkansas-White-Red		61	220,978	220,978	68	990	990
Region 12 Texas-Gulf		70	457,504	457,504	194	2,268	2,198
Region 13 Rio Grande		30	(D)	(D)	10	10	10
Region 14 Upper Colorado		-	-	-	-	-	-
Region 15 Lower Colorado		-	-	-	19	38	38
Region 16 Great Basin		26	397,424	397,424	8	2	2
Region 17 Pacific Northwest		190	1,471,830	1,471,830	146	1,238	938
Region 18 California		112	1,646,720	1,646,720	153	549	549
Region 19 Alaska		19	51,980	51,980	-	-	-
Region 20 Hawaii		107	3,703,920	3,703,920	76	305	281

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$50,000 - $99,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	2,999	55,510,219	55,510,219	1,522	13,904	9,500
	2008	3,018	45,125,143	43,515,189	2,388	30,633	18,799
2013 DATA							
Alabama		46	1,899,216	1,899,216	39	551	421
Alaska		10	59,040	59,040	-	-	-
Arizona		20	300,000	300,000	39	99	99
Arkansas		10	58,500	58,500	9	183	83
California		134	1,262,536	1,262,536	161	852	812
Colorado		38	270,808	270,808	13	436	436
Connecticut		46	(D)	(D)	13	74	16
Delaware		10	15,000	15,000	-	-	-
Florida		227	18,284,121	18,284,121	224	2,360	2,321
Georgia		72	1,244,358	1,244,358	50	422	360
Hawaii		112	2,794,770	2,794,770	56	451	148
Idaho		8	80,000	80,000	9	180	180
Illinois		67	802,200	802,200	32	344	119
Indiana		49	745,600	745,600	5	(D)	(D)
Iowa		59	777,976	777,976	20	23	8
Kansas		7	12,600	12,600	4	64	64
Kentucky		65	706,710	706,710	22	430	214
Louisiana		42	1,001,000	1,001,000	43	153	135
Maine		42	319,400	319,400	16	112	12
Maryland		62	876,960	876,960	21	125	123
Massachusetts		98	810,988	810,988	37	144	144
Michigan		115	1,518,912	1,518,912	44	2,222	232
Minnesota		71	575,568	575,568	22	(D)	(D)
Mississippi		6	88,200	88,200	11	140	110
Missouri		110	1,197,000	1,197,000	12	(D)	(D)
Montana		14	82,400	82,400	1	(D)	(D)
Nebraska		17	(D)	(D)	22	410	242
Nevada		-	-	-	-	-	-
New Hampshire		33	172,176	172,176	16	17	17
New Jersey		79	1,390,190	1,390,190	57	470	366
New Mexico		29	(D)	(D)	19	41	41
New York		184	2,526,428	2,526,428	53	585	573
North Carolina		93	2,442,715	2,442,715	46	353	176
North Dakota		6	78,000	78,000	-	-	-
Ohio		114	1,287,508	1,287,508	35	194	140
Oklahoma		22	985,820	985,820	-	-	-
Oregon		72	851,408	851,408	43	596	566
Pennsylvania		367	3,183,174	3,183,174	83	186	144
Rhode Island		3	12,204	12,204	-	-	-
South Carolina		26	328,000	328,000	10	164	64
South Dakota		17	106,624	106,624	17	29	13
Tennessee		60	725,400	725,400	12	68	8
Texas		39	604,732	604,732	60	548	530
Utah		22	147,200	147,200	7	4	4
Vermont		24	(D)	(D)	23	168	35
Virginia		56	1,400,880	1,400,880	33	158	151
Washington		34	252,000	252,000	28	47	47
West Virginia		31	(D)	(D)	9	(D)	85
Wisconsin		131	913,125	913,125	46	154	109
Wyoming		-	-	-	-	-	-
Water Resources Regions							
Region 01 New England		238	(D)	(D)	98	375	217
Region 02 Mid-Atlantic		603	7,821,078	7,821,078	212	1,690	1,347
Region 03 South Atlantic-Gulf		457	24,135,410	24,135,410	362	3,843	3,335
Region 04 Great Lakes		300	3,274,202	3,274,202	78	2,310	320
Region 05 Ohio		301	3,358,792	3,358,792	104	842	440
Region 06 Tennessee		38	549,140	549,140	12	22	22
Region 07 Upper Mississippi		281	2,846,719	2,846,719	97	469	189
Region 08 Lower Mississippi		64	1,308,000	1,308,000	54	293	245
Region 09 Souris-Red-Rainy		6	78,000	78,000	-	-	-
Region 10 Missouri		152	1,576,264	1,576,264	56	501	317
Region 11 Arkansas-White-Red		52	1,270,320	1,270,320	13	247	147
Region 12 Texas-Gulf		39	604,732	604,732	60	548	530
Region 13 Rio Grande		35	(D)	(D)	19	41	41
Region 14 Upper Colorado		27	181,808	181,808	13	436	436
Region 15 Lower Colorado		20	300,000	300,000	39	99	99
Region 16 Great Basin		7	8,400	8,400	7	4	4
Region 17 Pacific Northwest		118	1,145,808	1,145,808	81	884	854
Region 18 California		139	1,362,536	1,362,536	161	852	812
Region 19 Alaska		10	59,040	59,040	-	-	-
Region 20 Hawaii		112	2,794,770	2,794,770	56	451	148

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$100,000 - $249,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	3,515	158,899,889	158,899,889	2,531	51,276	39,189
	2008	3,851	111,668,352	108,844,757	3,211	63,484	46,280
2013 DATA							
Alabama		34	861,000	861,000	40	821	571
Alaska		4	8,404	8,404	1	(D)	(D)
Arizona		70	1,420,000	1,420,000	31	1,344	1,344
Arkansas		36	560,328	560,328	38	1,796	1,792
California		164	8,876,240	8,876,240	528	8,555	8,435
Colorado		41	704,000	704,000	41	1,017	1,017
Connecticut		85	(D)	(D)	56	239	113
Delaware		11	110,000	110,000	1	(D)	(D)
Florida		247	67,692,717	67,692,717	282	6,704	5,635
Georgia		35	885,080	885,080	38	935	835
Hawaii		60	6,084,312	6,084,312	59	368	332
Idaho		8	32,800	32,800	30	494	446
Illinois		84	2,096,374	2,096,374	43	1,051	818
Indiana		65	900,040	900,040	22	103	61
Iowa		57	499,440	499,440	22	505	215
Kansas		47	693,824	693,824	15	(D)	(D)
Kentucky		77	913,616	913,616	19	253	133
Louisiana		48	1,702,960	1,702,960	57	917	828
Maine		94	1,127,260	1,127,260	19	(D)	(D)
Maryland		15	603,000	603,000	11	377	245
Massachusetts		91	1,030,114	1,030,114	51	370	281
Michigan		213	6,594,980	6,594,980	86	2,680	1,824
Minnesota		106	3,137,976	3,137,976	36	1,715	430
Mississippi		26	632,696	632,696	32	2,066	2,041
Missouri		51	1,899,980	1,899,980	15	257	257
Montana		40	446,100	446,100	5	5	5
Nebraska		17	(D)	(D)	14	154	154
Nevada		1	(D)	(D)	5	254	254
New Hampshire		44	1,333,440	1,333,440	19	74	74
New Jersey		97	2,629,322	2,629,322	70	1,091	1,091
New Mexico		29	(D)	(D)	3	(D)	(D)
New York		148	2,328,200	2,328,200	42	1,746	77
North Carolina		113	3,950,206	3,950,206	69	2,048	534
North Dakota		6	66,000	66,000	-	-	-
Ohio		118	3,809,178	3,809,178	46	1,065	480
Oklahoma		43	1,264,240	1,264,240	43	719	540
Oregon		123	2,797,310	2,797,310	104	1,628	1,413
Pennsylvania		311	14,085,060	14,085,060	108	412	278
Rhode Island		12	96,000	96,000	33	571	389
South Carolina		32	266,700	266,700	35	698	698
South Dakota		17	231,000	231,000	19	177	83
Tennessee		52	3,153,616	3,153,616	11	501	381
Texas		136	2,845,630	2,845,630	125	3,182	2,735
Utah		28	406,532	406,532	22	432	432
Vermont		45	(D)	(D)	16	(D)	(D)
Virginia		68	3,722,240	3,722,240	49	411	355
Washington		90	1,556,660	1,556,660	34	104	104
West Virginia		15	(D)	(D)	10	560	(D)
Wisconsin		157	2,890,484	2,890,484	71	2,290	809
Wyoming		4	32,000	32,000	5	170	170
Water Resources Regions							
Region 01 New England		342	(D)	(D)	186	1,460	1,047
Region 02 Mid-Atlantic		513	20,656,262	20,656,262	234	2,410	2,016
Region 03 South Atlantic-Gulf		490	73,823,579	73,823,579	482	12,172	9,488
Region 04 Great Lakes		449	12,468,216	12,468,216	153	5,385	2,201
Region 05 Ohio		284	4,727,074	4,727,074	114	2,154	955
Region 06 Tennessee		48	2,003,056	2,003,056	23	792	422
Region 07 Upper Mississippi		317	6,753,858	6,753,858	145	4,662	2,077
Region 08 Lower Mississippi		64	3,650,560	3,650,560	67	1,752	1,633
Region 09 Souris-Red-Rainy		6	90,000	90,000	6	(D)	(D)
Region 10 Missouri		155	3,563,024	3,563,024	68	1,026	932
Region 11 Arkansas-White-Red		129	2,468,788	2,468,788	86	2,337	2,158
Region 12 Texas-Gulf		113	2,387,230	2,387,230	125	3,182	2,735
Region 13 Rio Grande		21	(D)	(D)	5	200	200
Region 14 Upper Colorado		7	105,000	105,000	18	541	541
Region 15 Lower Colorado		70	1,420,000	1,420,000	31	1,344	1,344
Region 16 Great Basin		29	416,532	416,532	42	982	982
Region 17 Pacific Northwest		250	4,562,270	4,562,270	166	1,950	1,687
Region 18 California		164	8,876,240	8,876,240	520	8,539	8,419
Region 19 Alaska		4	8,404	8,404	1	(D)	(D)
Region 20 Hawaii		60	6,084,312	6,084,312	59	368	332

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$250,000 - $499,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	2,180	131,388,617	131,388,617	1,615	51,028	39,878
	2008	1,999	135,011,360	122,384,618	1,923	83,553	55,162
2013 DATA							
Alabama		27	2,831,500	2,831,500	24	1,223	1,203
Alaska		6	134,200	134,200	4	1	1
Arizona		-	-	-	-	-	-
Arkansas		6	61,200	61,200	12	867	797
California		151	13,336,016	13,336,016	192	1,856	1,849
Colorado		17	869,000	869,000	23	1,726	1,726
Connecticut		65	(D)	(D)	30	127	127
Delaware		-	-	-	1	(D)	(D)
Florida		245	53,345,305	53,345,305	210	7,459	6,271
Georgia		34	2,931,600	2,931,600	45	960	885
Hawaii		48	5,565,000	5,565,000	25	383	378
Idaho		9	110,700	110,700	13	301	301
Illinois		47	603,868	603,868	30	1,270	473
Indiana		51	1,210,000	1,210,000	41	820	656
Iowa		27	452,600	452,600	14	313	237
Kansas		20	728,960	728,960	16	480	446
Kentucky		44	811,000	811,000	6	6	6
Louisiana		29	1,119,540	1,119,540	25	2,006	1,678
Maine		18	659,448	659,448	5	340	216
Maryland		30	656,080	656,080	11	411	411
Massachusetts		79	914,300	914,300	30	305	298
Michigan		63	2,544,000	2,544,000	68	5,805	3,593
Minnesota		46	1,962,080	1,962,080	19	416	(D)
Mississippi		-	-	-	7	482	370
Missouri		28	251,152	251,152	9	88	(D)
Montana		10	225,000	225,000	19	705	697
Nebraska		18	(D)	(D)	30	267	267
Nevada		-	-	-	2	(D)	(D)
New Hampshire		53	2,004,612	2,004,612	18	25	25
New Jersey		65	2,903,628	2,903,628	50	1,305	1,113
New Mexico		11	(D)	(D)	1	(D)	(D)
New York		97	3,109,650	3,109,650	60	957	602
North Carolina		83	3,449,920	3,449,920	54	997	629
North Dakota		6	30,240	30,240	6	480	480
Ohio		47	1,694,464	1,694,464	16	306	80
Oklahoma		-	-	-	10	1,656	1,076
Oregon		36	467,560	467,560	41	1,947	1,808
Pennsylvania		202	4,928,419	4,928,419	73	2,942	422
Rhode Island		11	264,000	264,000	16	951	951
South Carolina		27	274,500	274,500	26	845	559
South Dakota		9	270,000	270,000	-	-	-
Tennessee		41	4,843,592	4,843,592	17	275	123
Texas		103	5,618,560	5,618,560	90	4,810	4,551
Utah		15	161,600	161,600	5	85	85
Vermont		40	(D)	(D)	32	34	34
Virginia		119	4,122,513	4,122,513	105	2,463	2,067
Washington		58	1,328,320	1,328,320	59	1,144	1,072
West Virginia		-	-	-	-	-	-
Wisconsin		27	827,000	827,000	14	421	356
Wyoming		12	252,000	252,000	11	561	561
Water Resources Regions							
Region 01 New England		234	(D)	(D)	107	1,756	1,625
Region 02 Mid-Atlantic		450	13,910,152	13,910,152	266	7,967	4,529
Region 03 South Atlantic-Gulf		414	62,867,313	62,867,313	366	10,800	8,883
Region 04 Great Lakes		209	6,271,430	6,271,430	144	6,343	4,057
Region 05 Ohio		147	7,165,756	7,165,756	69	1,215	809
Region 06 Tennessee		23	(D)	(D)	18	1,112	940
Region 07 Upper Mississippi		95	2,508,668	2,508,668	44	1,981	812
Region 08 Lower Mississippi		34	1,619,540	1,619,540	30	2,733	2,223
Region 09 Souris-Red-Rainy		12	240,240	240,240	6	480	480
Region 10 Missouri		78	1,865,752	1,865,752	58	1,595	1,561
Region 11 Arkansas-White-Red		37	1,126,360	1,126,360	33	3,042	2,446
Region 12 Texas-Gulf		96	5,542,560	5,542,560	91	4,840	4,581
Region 13 Rio Grande		10	(D)	(D)	-	-	-
Region 14 Upper Colorado		11	340,000	340,000	21	976	976
Region 15 Lower Colorado		-	-	-	-	-	-
Region 16 Great Basin		8	21,600	21,600	7	105	105
Region 17 Pacific Northwest		117	2,155,580	2,155,580	134	3,846	3,627
Region 18 California		151	13,336,016	13,336,016	192	1,856	1,849
Region 19 Alaska		6	134,200	134,200	4	1	1
Region 20 Hawaii		48	5,565,000	5,565,000	25	383	378

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$500,000 - $999,999					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	1,577	154,899,992	154,899,992	1,296	84,533	68,448
	2008	1,588	152,299,283	149,504,903	1,424	100,224	68,027
2013 DATA							
Alabama		9	621,000	621,000	27	3,168	2,844
Alaska		-	-	-	-	-	-
Arizona		26	2,160,000	2,160,000	8	148	145
Arkansas		6	630,000	630,000	9	584	582
California		157	12,402,528	12,402,528	214	17,100	17,080
Colorado		13	526,600	526,600	25	1,976	1,896
Connecticut		28	(D)	(D)	7	14	14
Delaware		-	-	-	-	-	-
Florida		137	58,723,931	58,723,931	151	6,478	6,465
Georgia		29	3,756,948	3,756,948	31	2,905	2,905
Hawaii		27	2,367,880	2,367,880	18	252	251
Idaho		18	401,400	401,400	14	700	660
Illinois		30	876,945	876,945	33	1,982	1,107
Indiana		38	1,033,755	1,033,755	6	(D)	(D)
Iowa		6	8,700	8,700	3	893	360
Kansas		15	101,000	101,000	6	1,644	1,280
Kentucky		26	520,500	520,500	12	565	215
Louisiana		22	852,480	852,480	22	375	242
Maine		25	834,000	834,000	9	(D)	(D)
Maryland		22	1,662,972	1,662,972	25	2,031	1,518
Massachusetts		38	1,376,440	1,376,440	24	40	40
Michigan		107	8,153,120	8,153,120	66	12,821	5,936
Minnesota		25	1,417,040	1,417,040	10	955	805
Mississippi		-	-	-	8	880	880
Missouri		16	930,000	930,000	16	434	334
Montana		3	69,120	69,120	3	(D)	(D)
Nebraska		24	(D)	(D)	1	(D)	(D)
Nevada		-	-	-	3	(D)	(D)
New Hampshire		16	560,000	560,000	-	-	-
New Jersey		35	2,553,840	2,553,840	47	3,276	2,565
New Mexico		1	(D)	(D)	3	303	303
New York		87	5,239,240	5,239,240	79	1,032	990
North Carolina		63	2,480,841	2,480,841	50	3,577	852
North Dakota		-	-	-	-	-	-
Ohio		23	2,193,400	2,193,400	11	779	449
Oklahoma		10	800,000	800,000	12	2,830	2,830
Oregon		63	3,620,784	3,620,784	67	1,656	1,506
Pennsylvania		107	4,275,860	4,275,860	38	238	238
Rhode Island		24	642,000	642,000	13	695	645
South Carolina		9	529,200	529,200	25	1,839	1,784
South Dakota		9	432,000	432,000	4	272	272
Tennessee		23	1,565,228	1,565,228	33	2,996	1,558
Texas		75	5,134,720	5,134,720	63	4,422	4,385
Utah		16	1,600,000	1,600,000	-	-	-
Vermont		18	(D)	(D)	2	(D)	(D)
Virginia		54	13,901,840	13,901,840	35	1,168	1,168
Washington		36	2,710,080	2,710,080	28	1,796	1,756
West Virginia		6	(D)	(D)	-	-	-
Wisconsin		55	3,482,600	3,482,600	35	1,132	1,017
Wyoming		-	-	-	-	-	-
Water Resources Regions							
Region 01 New England		131	(D)	(D)	53	785	735
Region 02 Mid-Atlantic		240	16,208,512	16,208,512	183	7,417	6,191
Region 03 South Atlantic-Gulf		267	76,218,360	76,218,360	293	17,787	14,683
Region 04 Great Lakes		192	12,482,120	12,482,120	106	13,039	6,063
Region 05 Ohio		98	3,869,080	3,869,080	56	2,804	1,326
Region 06 Tennessee		13	564,328	564,328	13	1,724	1,270
Region 07 Upper Mississippi		94	4,137,560	4,137,560	66	4,837	3,209
Region 08 Lower Mississippi		27	1,052,480	1,052,480	34	2,140	1,805
Region 09 Souris-Red-Rainy		-	-	-	-	-	-
Region 10 Missouri		52	1,904,640	1,904,640	25	3,140	2,596
Region 11 Arkansas-White-Red		50	3,107,600	3,107,600	50	4,670	4,670
Region 12 Texas-Gulf		60	3,904,720	3,904,720	52	4,007	3,970
Region 13 Rio Grande		1	(D)	(D)	3	303	303
Region 14 Upper Colorado		6	150,000	150,000	7	7	7
Region 15 Lower Colorado		26	2,160,000	2,160,000	8	148	145
Region 16 Great Basin		16	1,600,000	1,600,000	3	126	126
Region 17 Pacific Northwest		120	6,801,384	6,801,384	112	4,248	4,018
Region 18 California		157	12,402,528	12,402,528	214	17,100	17,080
Region 19 Alaska		-	-	-	-	-	-
Region 20 Hawaii		27	2,367,880	2,367,880	18	252	251

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Table 45. **Irrigated Horticultural Operations by Market Value of All Agricultural Products Sold: 2013 and 2008** (continued)

[Excludes institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text]

Geographic area		$1,000,000 or more					
		Under protection			In the open		
		Operations	Square feet	Square feet irrigated	Operations	Acres	Acres irrigated
United States	2013	2,096	838,082,473	835,846,393	1,936	400,264	343,547
	2008	2,223	916,127,254	883,911,809	2,340	472,586	364,387
2013 DATA							
Alabama		33	17,811,280	17,811,280	50	12,329	11,510
Alaska		5	1,306,800	1,306,800	-	-	-
Arizona		9	13,591,200	13,591,200	19	5,052	5,052
Arkansas		11	2,420,000	2,420,000	14	17,320	17,320
California		399	204,009,675	204,009,675	432	42,586	42,203
Colorado		25	11,017,800	11,017,800	20	3,540	3,490
Connecticut		37	(D)	(D)	21	1,795	1,795
Delaware		3	58,800	58,800	2	(D)	(D)
Florida		284	160,045,963	160,045,963	233	47,803	36,151
Georgia		62	12,274,150	12,274,150	39	9,370	9,318
Hawaii		15	1,483,440	1,483,440	12	188	188
Idaho		9	1,568,160	1,568,160	12	3,260	3,260
Illinois		49	12,865,093	12,865,093	35	7,502	5,525
Indiana		14	2,510,860	2,510,860	26	3,170	1,883
Iowa		15	5,993,816	5,993,816	10	218	168
Kansas		18	6,324,464	6,324,464	4	1,344	1,344
Kentucky		23	6,155,400	6,155,400	11	16	16
Louisiana		24	2,524,034	2,524,034	19	1,257	1,257
Maine		7	5,701,440	5,701,440	4	49	49
Maryland		29	9,116,152	9,116,152	35	6,722	6,406
Massachusetts		67	(D)	(D)	32	1,312	1,212
Michigan		94	32,755,563	32,631,483	60	19,675	9,717
Minnesota		35	15,955,110	15,955,110	30	4,101	3,018
Mississippi		9	1,505,000	1,505,000	4	216	216
Missouri		21	2,902,520	2,902,520	11	1,951	1,215
Montana		10	1,271,200	1,271,200	-	-	-
Nebraska		1	(D)	(D)	8	1,830	1,365
Nevada		-	-	-	-	-	-
New Hampshire		10	965,000	965,000	1	(D)	(D)
New Jersey		82	23,881,142	23,881,142	60	12,834	10,046
New Mexico		1	(D)	(D)	2	(D)	(D)
New York		72	23,264,700	23,264,700	22	4,689	4,255
North Carolina		60	20,215,776	20,215,776	58	4,346	3,709
North Dakota		6	720,000	720,000	7	120	120
Ohio		81	22,418,160	22,418,160	87	10,653	6,562
Oklahoma		17	7,893,708	7,893,708	17	19,018	16,620
Oregon		107	34,387,202	34,387,202	161	50,288	49,335
Pennsylvania		45	4,783,368	4,783,368	40	4,764	967
Rhode Island		2	(D)	(D)	2	(D)	(D)
South Carolina		19	2,977,000	865,000	53	18,084	17,319
South Dakota		-	-	-	-	-	-
Tennessee		41	24,546,228	24,546,228	33	5,820	4,583
Texas		111	73,632,225	73,632,225	98	47,600	44,980
Utah		38	16,028,640	16,028,640	30	3,279	3,263
Vermont		1	(D)	(D)	-	-	-
Virginia		49	11,096,492	11,096,492	49	6,603	4,191
Washington		16	1,150,000	1,150,000	37	7,817	7,817
West Virginia		1	(D)	(D)	1	(D)	(D)
Wisconsin		29	8,531,368	8,531,368	35	10,540	4,940
Wyoming		-	-	-	-	-	-
Water Resources Regions							
Region 01 New England		123	(D)	(D)	60	3,353	3,212
Region 02 Mid-Atlantic		229	49,812,154	49,812,154	194	33,617	25,598
Region 03 South Atlantic-Gulf		464	216,482,153	214,370,153	442	92,343	78,418
Region 04 Great Lakes		184	79,472,791	79,348,711	124	26,299	13,706
Region 05 Ohio		115	34,198,704	34,198,704	103	13,736	7,579
Region 06 Tennessee		21	(D)	(D)	11	2,032	1,987
Region 07 Upper Mississippi		120	25,773,803	25,773,803	96	21,846	13,231
Region 08 Lower Mississippi		35	4,944,034	4,944,034	26	(D)	(D)
Region 09 Souris-Red-Rainy		8	7,920,000	7,920,000	6	60	60
Region 10 Missouri		49	21,777,000	21,777,000	40	6,662	5,981
Region 11 Arkansas-White-Red		34	10,955,708	10,955,708	31	37,309	34,861
Region 12 Texas-Gulf		103	73,456,225	73,456,225	98	47,600	44,980
Region 13 Rio Grande		8	(D)	(D)	2	(D)	(D)
Region 14 Upper Colorado		-	-	-	-	-	-
Region 15 Lower Colorado		9	13,591,200	13,591,200	19	5,052	5,052
Region 16 Great Basin		38	16,028,640	16,028,640	30	3,279	3,263
Region 17 Pacific Northwest		131	36,575,362	36,575,362	210	61,365	60,412
Region 18 California		405	204,939,675	204,939,675	432	42,586	42,203
Region 19 Alaska		5	1,306,800	1,306,800	-	-	-
Region 20 Hawaii		15	1,483,440	1,483,440	12	188	188

Appendix A.
Statistical Methodology

THE SURVEY POPULATION

Sample Design

The target population for the 2013 Farm and Ranch Irrigation Survey (FRIS) was composed of all farms irrigating in the reference year 2013. From the 2012 Census of Agriculture, 197,456 records were identified for the U.S. level FRIS population on the basis of having irrigation activity on their farm or ranch. This excluded 1,283 institutional, research, or experimental farms from the total number of irrigators that reported in the 2012 census.

The FRIS sample was a State level sample and drawn for all 50 States. This sample design targeted a U.S. level sample size of 35,000. A certainty stratum, with farms selected with probability one, was included in each State to ensure that the major irrigators in each State were sampled. The remaining strata were sampled systematically by acreage. The stratification boundaries varied among the States and were dependent on the distribution of total acres irrigated within the State. The stratified design ensured that the sample was reflective of the FRIS population and achieved the appropriate coefficients of variation (CV) levels at both the U.S. and State levels.

The final national sample size was 34,966 farms; 2,095 of these farms were selected from the certainty strata and the remaining 32,871 farms were systematically selected from the noncertainty strata. Table A provides the State sample counts for FRIS, including acres associated with those counts, final reports processed and tabulated both unexpanded and expanded, and 2012 census counts.

DATA COLLECTION

Method of Enumeration

The 2013 Farm and Ranch Irrigation Survey was conducted primarily by mail. Data were also collected by Electronic Data Reporting (EDR) via the Internet, telephone enumeration, and personal enumeration. Enumeration methods used in the 2013 survey were similar to those used in the 2008 survey.

Report Form

A single 20-page report form was created to consolidate what was collected on two report forms in the 2008 FRIS (the 2008 FRIS and the 2008 Horticultural Irrigation Survey). This combined report form was used to collect irrigation data from farm and ranch operators and horticultural producers. The report form was mailed to all the producers in the FRIS sample that reported irrigation in the 2012 Census of Agriculture. See Appendix B for a copy of the report and instruction booklet and also for information regarding changes between the 2008 and 2013 forms.

Report Form Mailings and Respondent Follow-up

The initial mailout took place in January 2014. Mail packets were mailed to approximately 31,300 farm and ranch operations, including horticultural operations. The initial mail packets included a labeled report form, an instruction booklet, a letter requesting a prompt response, and a return envelope. Mailout packet preparation, initial mailout, and one follow-up mailing to nonrespondents were handled by the U.S. Census Bureau's National Processing

Center (NPC) in Jeffersonville, IN. Telephone follow-up from a NASS Data Collection Center began April 2014 to nonrespondents who were mailed a report form from NPC.

Data were collected for a select group of operations by the NASS field offices. To minimize the number of agency contacts, operations were included in this group if they were scheduled for contact by NASS for other agricultural surveys. Report forms were labeled at NPC and sent to the field offices in December 2013. Field office staff collected data by personal enumeration or by phone from January 2014 through May 2014. For a description of the adjustment for nonresponse, see Estimation.

REPORT FORM PROCESSING

Data Capture

All report forms returned to NPC were immediately checked in, using bar codes printed on the mailing label, and this check-in process removed them from follow-up mailings. All forms were reviewed prior to data keying to identify inconsistencies and ensure that the data could be keyed. Major inconsistencies, respondent remarks, blank report forms, and large irrigation cases were reviewed by analysts and adjusted prior to data keying as needed. All forms with any data were scanned and an image was created for each page of a report form.

Data Editing and Analysis

Data from each report form were processed through a computer edit which flagged inconsistent entries. Each flagged entry was reviewed by staff. In some cases, respondents may have failed to provide all of the information requested, only indicating the presence of an item but not the amount. For those data that would not be machine imputed they were estimated by the analyst based on other responses in the geographic area and by similarly sized farms. After the initial edit, an imputation program supplied missing data and made adjustments based on responses of similarly sized farms within the same geographic area. Data entries of large magnitude and data items that were changed significantly in the computer edit process were reviewed and verified by analysts.

Prior to publication, tabulated totals were reviewed to identify and resolve remaining inconsistencies and potential coverage problems. Comparisons were made with 2012 census data, 2008 Farm and Ranch Irrigation Survey data, and other available check data. The data were processed through a disclosure program to prevent data from being published that could be sourced back to an individual operation.

Imputation

After the initial edit, imputations were made for missing data on quantity of water applied, well and pump characteristics, energy cost of well pumps, individual crop yields and quantity of water used, horticulture water sources, maintenance and repair costs, and expenditures listed in report form section 15.

ESTIMATION

Data were summarized for the Nation as a whole, for each of the 50 States, and for the geographic domains known as Water Resources Regions (WRR) (see Appendix B for detailed description). The estimation methodology consisted of two weighting components that made up the total FRIS weight. The first component was the fully adjusted weight pulled in from the 2012 Census of Agriculture. This weight accounted for any list incompleteness and undercoverage from the 2012 census. The second component was the sampling rate used for the FRIS. This expansion factor was the inverse of the selection probability for the sample farms in a stratum. This expansion factor was reweighted at the stratum level to account for whole-farm nonresponse. The nonresponse adjustment factor used to reweight the expansion factor was the ratio of the number of sample farms in a stratum to the number of sample farms that responded to the survey in that stratum. The assumption underlying this weighting approach to survey nonresponse was that survey respondents and nonrespondents within a stratum constitute a homogeneous population, thus allowing respondents to represent nonrespondents. An expanded data value for a sample record was obtained by multiplying the data value by the total FRIS weight. State totals for a characteristic were estimated by summing the expanded data values from all responding sample records across all strata within the State. National estimates were obtained by

summing across all States. The WRR estimates were obtained by summing the expanded data values for the portion of the sample falling into the WRR.

RESPONDENT CONFIDENTIALITY

In keeping with the provisions of Title 7 of the United States Code, no data are published that would disclose information about the operations of an individual farm or ranch. All tabulated data are subjected to an extensive disclosure review prior to publication. Any tabulated item that identifies data reported by a respondent or allows a respondent's data to be accurately estimated or derived, was suppressed and coded with a 'D'. However, the number of farms reporting an item is not considered confidential information and is provided even though other information is withheld.

DATA COMPARABILITY

The 2013 Farm and Ranch Irrigation Survey data were weighted for incompleteness of the mail list. For Tables 7 through 18, 22, and 24 through 26, the State level FRIS data are not comparable between the 2013 and 2008 surveys. In the 2013 survey, the data included operations that reported horticultural sales during the previous census year. In 2008, data for operations with horticultural sales were included in Chapter 2, Horticultural Operations Data tables. To provide a measure of comparability, where possible, the published 2008 U.S. level data were adjusted to include the horticulture operations' data.

Differences exist between the expanded results of the 2013 Farm and Ranch Irrigation Survey and published data from the 2012 Census of Agriculture. Some of these are as follows:

1. The survey includes data only for operations that irrigated in both 2012 and 2013. Operations in some areas, especially the eastern States, irrigate intermittently according to moisture needs. Operations with irrigation capabilities may not irrigate depending on the amount of rainfall for a particular year or geographic area. The number of operations that irrigated in 2012 but discontinued irrigation in 2013 is tabulated in Table 27 for all farms and in Table 44 for horticultural operations by reason of discontinuance.

2. Some operators reported that they had been misclassified as irrigators and did not irrigate in either 2012 or 2013. An estimated 9,522 operations with 743,333 acres irrigated were misclassified as irrigated in the 2012 Census of Agriculture. In addition to errors in processing census data, some operators misreported or misinterpreted the questions. Most of the operators misreporting irrigation in the 2012 census reported irrigation of small acreages of vegetables, fruits and nuts, tobacco, field crops, or berries.

3. Some respondents indicated they had retired, moved, sold or rented the land, etc., since 2012. After analytical review of the 2013 receipts, an estimated 17,022 operations accounting for 2,107,745 acres irrigated in 2012, after expansion, were dropped from processing because they were no longer farming. Special care was taken with large operations to ensure that they were not erroneously dropped due to reorganization or name change rather than discontinuing agricultural operations.

4. New irrigators in 2013 (not included in the 2012 census) did not have a chance of being selected in the sample and, therefore, were excluded from the survey. It is believed that the impact of new irrigators is probably minimal. This conclusion is supported by comparisons between the 2007 and 2012 Census of Agriculture irrigation data which show little change in irrigated acres.

Table B shows acres irrigated in the 2013 FRIS (expanded) compared with U.S. totals from the 2012 Census of Agriculture. The expanded survey accounts for 99.1 percent of all land reported as irrigated in the 2012 census and all irrigation characteristics associated with that land.

MEASURES OF SURVEY QUALITY

The statistics in this report are estimates derived from a sample survey. There are two types of errors possible in an estimate-based sample survey: sampling and nonsampling. Sampling error is the error caused by observing only a sample instead of the entire population. The sampling error is subject

to sample-to-sample variation. Nonsampling errors include all other errors and can arise from many different sources. These sources may include respondent or enumerator error or incorrect data keying, editing, or imputing for missing data. Nonsampling error due to mail list incompleteness and duplication, as well as misclassification of records on the mail list, is referred to as coverage error.

Undercoverage existed in the frame population to the extent that there were farms that either erroneously reported not irrigating in the 2012 census, started irrigating in 2013, or had succeeding irrigators in 2013 (i.e., an operator who, since 2012, took over control of an irrigating farm through sales, rental, or other arrangements). Overcoverage existed in the frame because some operations were misclassified as irrigated and did not irrigate in 2012 or had either stopped farming or irrigating in 2013. Farms in these groups that were selected into the sample were identified during the survey and estimates of their number and acres irrigated are provided above under Data Comparability, items 2 and 3.

Survey Response Rate

The reponse rate is one indicator of the quality of a data collection. It is generally assumed that if a response rate is close to a full participation level of 100 percent, the potential for nonresponse bias is small, although this has been questioned recently in the literature. Because the FRIS contains both farm and nonfarm records, the response rate is an indicator of replying to the FRIS data collection effort, but does not reflect whether those responding met the farm definition or had the items of interest for the survey. The response rate for the 2013 Farm and Ranch Irrigation Survey is 77.8 percent. This compares to 79.4 percent for the 2008 Farm and Ranch Irrigation Survey.

MEASURES OF PRECISION

The survey sample was one of a large number of possible samples of the same size that could have been selected using the same sample design. Survey estimates derived from the different samples will differ from each other.

The relative standard error is used as an indicator of the precision in the survey estimates and is reported for major survey items in Table C and Table D. The relative standard error expresses the standard error of an estimate as a percent of the estimated value. The standard error of a survey estimate is a measure of the variation among the estimates from all possible samples. It is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples.

The relative standard errors given in Table C and Table D can be used to construct confidence intervals for the major survey items. Confidence intervals are another way to express the precision of an estimate by calculating the upper and lower bounds for a level of confidence. This confidence interval is designed to contain the true value being estimated. If all possible samples were selected, each of the samples were surveyed under essentially the same conditions, and an estimate and its standard error were calculated from each sample, then:

1. Approximately 67 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average value of all possible samples.

2. Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the average value of all possible samples.

The computations necessary to construct the confidence intervals associated with these statements are illustrated in the following example: Assume that the estimated number of irrigated acres of a certain item is 669,813 and the relative standard error of the estimate is 1.6 percent (0.016). Multiplying 669,813 by 0.016 yields 10,717, the standard error. Therefore, a 67-percent confidence interval is 659,096 to 680,530 (i.e., 669,813 + 10,717). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 2 out of 3 (67 percent) of these intervals would contain the figure obtained from a complete enumeration. Similarly, a 90-percent confidence interval is 652,130 to 687,496 (i.e., 669,813 + 1.65 x 10,717).

Table A. **Irrigated Farms: 2013 Farm and Ranch Irrigation Survey and the 2012 Census of Agriculture**

Geographic area	2013 FRIS						2012 Census			
	Sample Count		Final reports processed and tabulated				Published totals		Sample universe[1]	
			Unexpanded		Expanded					
	Farms	2012 census irrigated acres	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States	34,966	23,279,303	20,109	16,602,965	229,237	55,319,417	296,303	55,822,231	197,456	45,314,109
Alabama	631	92,690	289	65,293	1,022	101,178	1,747	113,008	1,186	98,800
Alaska	83	1,737	53	848	181	1,071	230	2,451	207	1,923
Arizona	562	640,052	331	463,674	4,380	851,861	5,839	880,613	2,738	741,334
Arkansas	1,132	2,093,699	616	1,307,761	4,212	4,950,053	5,084	4,803,902	3,644	3,822,451
California	2,078	2,623,173	1,200	1,755,610	44,347	7,549,161	53,546	7,861,964	33,699	6,363,276
Colorado	786	657,533	476	411,546	12,501	2,309,543	15,547	2,516,785	10,796	2,062,732
Connecticut	211	6,222	113	2,728	715	5,371	1,011	9,272	623	8,093
Delaware	265	108,036	149	74,381	396	114,769	533	127,272	399	113,595
Florida	1,614	1,135,530	908	862,513	8,120	1,364,559	11,744	1,493,320	7,330	1,365,246
Georgia	1,075	670,338	549	417,044	3,545	1,196,947	5,230	1,125,355	3,404	845,439
Hawaii	567	73,816	378	63,089	1,919	76,459	2,498	81,813	1,538	76,718
Idaho	905	1,393,829	613	1,131,021	14,092	3,511,839	15,732	3,365,292	9,642	2,790,395
Illinois	913	393,622	598	325,276	1,807	541,818	2,644	522,479	2,028	454,642
Indiana	886	329,664	558	259,003	1,893	454,712	2,598	437,445	1,975	380,709
Iowa	621	137,112	379	117,287	1,090	175,847	1,525	171,656	1,173	144,174
Kansas	613	804,906	350	556,470	5,243	2,851,317	6,205	2,881,292	4,418	2,132,967
Kentucky	720	64,223	250	32,867	1,212	51,126	2,910	73,573	2,164	74,726
Louisiana	897	696,929	499	506,326	2,130	1,096,381	3,015	1,092,881	2,043	862,431
Maine	231	27,422	128	17,037	946	20,817	1,365	30,887	731	28,934
Maryland	453	86,943	284	64,660	890	100,909	1,220	104,910	994	95,596
Massachusetts	293	12,780	177	9,150	1,398	27,230	1,746	23,433	1,193	20,997
Michigan	1,103	448,326	683	314,086	3,662	587,850	5,025	592,243	3,810	541,554
Minnesota	873	379,177	522	279,555	2,162	516,724	2,853	524,016	2,119	441,498
Mississippi	893	1,340,288	544	998,855	1,843	1,701,587	2,454	1,651,978	1,700	1,430,105
Missouri	1,037	896,022	598	648,959	2,569	1,235,334	3,727	1,180,886	2,827	1,078,287
Montana	753	600,884	483	446,613	7,384	1,872,389	9,451	1,903,019	6,700	1,447,369
Nebraska	696	1,146,305	439	835,813	15,747	8,297,560	17,136	8,296,573	12,380	6,725,075
Nevada	385	418,686	244	253,684	2,149	689,953	2,512	687,790	1,274	502,061
New Hampshire	183	1,463	91	1,001	528	4,020	686	2,630	387	1,934
New Jersey	568	71,681	336	50,036	1,255	80,777	1,769	88,376	1,527	83,748
New Mexico	597	354,404	363	283,965	8,733	694,632	11,430	680,318	5,934	516,728
New York	669	33,265	341	19,298	1,936	48,705	3,404	59,807	2,321	49,903
North Carolina	674	88,929	368	50,484	2,710	136,721	4,699	174,526	3,102	149,513
North Dakota	367	164,816	160	106,101	533	213,728	744	218,407	571	179,750
Ohio	697	36,811	345	21,898	1,453	41,776	2,462	46,569	2,020	43,199
Oklahoma	614	333,478	314	200,228	1,672	426,602	2,500	479,750	1,765	382,765
Oregon	1,298	770,075	818	553,117	12,299	1,554,173	14,975	1,629,735	10,891	1,393,719
Pennsylvania	865	21,239	478	9,410	3,126	24,027	4,539	38,990	2,988	31,445
Rhode Island	78	2,453	45	998	294	3,042	325	3,954	179	2,879
South Carolina	442	131,221	212	78,516	1,046	133,927	1,973	159,239	1,279	139,251
South Dakota	403	207,198	266	159,737	1,274	369,864	1,656	378,678	1,179	303,802
Tennessee	814	136,512	367	108,951	1,108	146,932	2,146	146,442	1,775	144,116
Texas	1,415	1,510,019	742	1,013,921	13,259	4,491,987	18,169	4,489,163	12,021	3,521,975
Utah	674	330,664	469	272,193	10,357	1,125,106	12,296	1,104,257	7,677	775,676
Vermont	185	1,408	97	612	567	2,324	766	3,565	409	2,293
Virginia	439	46,595	212	26,064	1,342	50,100	2,456	68,651	1,613	61,596
Washington	1,146	912,225	662	733,227	10,575	1,623,389	14,736	1,633,571	10,357	1,438,541
West Virginia	138	1,327	71	815	297	1,453	466	2,064	330	1,724
Wisconsin	905	355,130	581	318,830	2,427	473,483	3,240	421,721	2,572	397,307
Wyoming	519	488,446	360	372,414	4,891	1,418,284	5,739	1,435,710	3,824	1,041,118

[1] Excludes institutional, research, and experimental farms.

Table B. **Farms with Irrigation by Acres Irrigated: 2012 Census of Agriculture Compared with 2013 FRIS**

Item	2012 census United States totals	2013 FRIS		Item	2012 census United States totals	2013 FRIS	
		United States total (expanded)	Percent of 2012 census totals			United States total (expanded)	Percent of 2012 census totals
Farms ..... number	296,303	229,237	77.4	200 to 499 acres ..... farms	28,120	25,956	92.3
acres	55,822,231	55,319,417	99.1	acres	8,832,682	8,391,260	95.0
1 to 49 acres ..... farms	190,068	135,931	71.5	500 to 999 acres ..... farms	15,322	14,723	96.1
acres	1,854,674	1,441,866	77.7	acres	10,601,007	10,252,156	96.7
50 to 99 acres ..... farms	24,302	19,400	79.8	1,000 to 1,999 acres ..... farms	8,849	8,928	100.9
acres	1,688,711	1,365,432	80.9	acres	12,042,408	12,133,801	100.8
100 to 199 acres ..... farms	24,956	19,298	77.3	2,000 acres or more ..... farms	4,686	5,001	106.7
acres	3,428,850	2,660,802	77.6	acres	17,373,899	19,074,100	109.8

Table C. **Relative Standard Error (percent) for Selected General Irrigation Data: 2013**

[Excludes institutional, research, and experimental farms and farms with horticulture. For meaning of abbreviations and symbols, see introductory text]

Geographic area	Irrigated farms	Land in farms	Acres irrigated		Acre-feet applied	Energy expense for pumps	Expenditure expenses	Pumps, all types	Well pumps
			Total	Cropland harvested					
United States	1.0	4.5	1.3	1.3	1.7	2.0	3.6	1.5	1.8
Alabama	3.6	6.8	6.2	6.2	6.7	12.6	9.3	6.0	8.7
Alaska	6.2	17.3	6.8	6.9	7.5	15.1	27.5	14.2	(D)
Arizona	6.7	33.4	4.5	4.7	4.7	9.0	20.1	8.9	9.6
Arkansas	4.2	6.3	6.4	6.4	6.7	7.1	10.1	6.3	6.4
California	3.6	12.7	4.5	4.4	5.0	5.8	11.5	5.4	6.1
Colorado	4.5	11.2	4.6	4.7	5.8	8.3	23.5	7.6	8.7
Connecticut	5.6	20.8	9.5	9.5	15.1	23.9	24.8	9.1	11.0
Delaware	5.0	6.3	6.4	6.5	7.5	8.1	10.2	5.8	(D)
Florida	3.7	7.8	6.1	5.3	7.3	5.9	18.1	5.1	5.7
Georgia	4.5	9.2	5.8	5.7	6.3	7.2	12.6	5.3	5.7
Hawaii	2.6	10.9	6.6	(D)	6.2	6.5	22.0	11.1	18.7
Idaho	3.5	7.9	4.6	4.8	4.8	6.5	13.2	5.9	8.5
Illinois	3.7	6.0	6.0	6.0	7.2	5.9	19.3	5.1	5.4
Indiana	3.5	4.9	4.3	4.3	4.9	5.2	9.1	4.1	4.4
Iowa	3.6	6.2	4.9	4.9	5.7	5.8	9.8	4.8	5.1
Kansas	3.8	7.6	4.5	4.5	4.9	6.6	14.2	4.7	4.9
Kentucky	4.6	9.8	8.6	8.6	9.4	11.9	20.0	7.6	10.3
Louisiana	3.9	4.9	4.5	4.5	5.3	5.8	28.7	4.5	5.0
Maine	6.5	12.3	16.9	(D)	14.3	19.0	19.1	8.3	10.3
Maryland	4.8	4.9	4.5	4.5	5.6	9.6	9.1	4.9	(D)
Massachusetts	7.4	9.2	12.5	12.5	7.9	14.1	32.2	8.6	16.0
Michigan	3.9	4.3	4.0	4.0	4.7	5.0	10.2	7.2	9.0
Minnesota	4.1	6.9	6.3	6.3	5.9	5.8	11.1	5.7	5.9
Mississippi	5.2	5.9	5.1	5.1	5.2	5.9	8.3	4.9	4.9
Missouri	4.8	4.8	5.7	5.7	8.3	5.3	9.7	4.9	5.2
Montana	4.2	9.6	5.3	5.4	6.1	8.1	19.0	8.7	22.9
Nebraska	3.4	9.8	4.5	4.5	5.0	5.5	10.6	4.8	4.9
Nevada	5.1	12.1	7.3	7.3	7.7	10.1	15.0	9.5	9.7
New Hampshire	4.4	18.0	41.6	(D)	30.2	27.5	57.9	11.5	10.4
New Jersey	4.6	6.7	5.4	5.4	5.2	5.2	12.3	5.5	5.1
New Mexico	4.9	19.2	5.6	5.4	5.2	7.4	14.0	6.9	7.6
New York	5.2	12.7	9.9	10.0	12.3	9.0	14.4	7.0	7.9
North Carolina	6.2	10.1	8.3	8.3	9.4	12.7	16.4	7.6	11.9
North Dakota	6.2	9.6	6.0	6.0	6.4	8.6	14.5	7.2	(D)
Ohio	4.4	7.4	11.9	11.9	11.6	12.3	14.6	5.4	7.0
Oklahoma	6.4	11.2	7.1	7.2	7.0	8.3	11.1	7.1	7.5
Oregon	3.2	12.2	4.1	4.5	5.0	6.6	15.1	8.2	8.1
Pennsylvania	4.5	17.4	6.4	6.4	7.5	8.7	16.8	5.3	6.1
Rhode Island	6.5	10.1	15.1	15.5	18.3	29.9	32.7	12.1	16.0
South Carolina	9.0	7.5	7.3	7.4	8.6	7.5	40.5	8.5	10.5
South Dakota	5.4	10.5	5.3	5.3	6.2	8.5	14.4	6.0	6.8
Tennessee	4.1	6.1	4.8	(D)	4.8	9.1	8.6	6.1	5.3
Texas	4.8	25.2	5.0	5.1	5.4	5.8	10.9	5.8	5.9
Utah	3.3	10.1	4.3	4.5	5.1	9.1	15.5	7.9	11.1
Vermont	4.5	13.0	21.3	16.8	13.5	34.6	32.0	10.5	14.3
Virginia	7.0	8.7	8.3	(D)	11.6	9.4	29.5	8.3	10.3
Washington	5.4	14.9	4.7	4.8	4.7	5.6	8.9	5.6	10.0
West Virginia	6.2	29.7	11.1	11.1	19.2	17.3	33.3	12.5	15.6
Wisconsin	4.0	5.6	5.4	5.4	6.5	6.2	8.2	4.7	4.8
Wyoming	3.2	17.5	4.4	4.8	5.3	9.5	26.5	10.8	16.2
Water Resources Regions									
Region 01 New England	3.1	6.4	8.1	(D)	6.3	10.6	23.1	5.1	6.8
Region 02 Mid-Atlantic	2.5	5.0	2.5	2.5	3.0	3.4	6.0	2.6	2.8
Region 03 South Atlantic-Gulf	2.3	4.7	2.9	2.4	4.2	3.5	12.0	3.0	3.6
Region 04 Great Lakes	2.6	2.9	2.4	2.4	3.0	3.4	8.1	5.0	6.4
Region 05 Ohio	2.7	4.1	3.8	3.8	4.7	5.2	10.2	3.5	3.7
Region 06 Tennessee	8.4	8.4	8.0	(D)	10.2	17.5	12.4	10.2	(D)
Region 07 Upper Mississippi	2.3	2.9	2.1	2.1	2.8	2.3	9.1	2.2	2.2
Region 08 Lower Mississippi	2.2	1.8	1.9	1.9	2.4	2.8	6.6	2.1	2.1
Region 09 Souris-Red-Rainy	9.7	9.0	5.7	5.7	5.6	9.1	17.0	7.6	7.6
Region 10 Missouri	2.6	6.3	2.0	2.1	2.4	3.5	7.5	2.8	3.1
Region 11 Arkansas-White-Red	5.9	7.5	3.5	3.6	4.1	4.6	12.3	4.4	4.2
Region 12 Texas-Gulf	6.2	19.1	4.4	4.5	5.0	6.0	12.8	5.7	5.9
Region 13 Rio Grande	7.2	45.9	8.0	7.5	8.2	9.2	15.7	8.7	9.3
Region 14 Upper Colorado	7.8	11.0	6.0	6.2	7.3	13.8	21.0	16.9	(D)
Region 15 Lower Colorado	8.0	30.8	3.3	3.4	3.8	8.1	19.8	8.9	9.6
Region 16 Great Basin	6.0	7.0	3.9	4.0	3.8	6.1	10.8	6.7	7.1
Region 17 Pacific Northwest	2.5	6.8	1.7	1.7	2.0	2.9	7.3	3.7	5.0
Region 18 California	3.3	12.3	2.5	2.4	3.2	4.2	11.1	4.9	5.8
Region 19 Alaska	6.2	17.3	6.8	6.9	7.5	15.1	27.5	14.2	(D)
Region 20 Hawaii	2.6	10.9	6.6	(D)	6.2	6.5	22.0	11.1	18.7

Table D. **Relative Standard Error (percent) for Selected Horticultural Irrigation Data: 2013**

Geographic area	Horticultural operations	Irrigated area	
		Square Feet Under Protection	Acres in the open
United States	1.8	4.9	4.5
Alabama	6.8	32.9	8.6
Alaska	8.0	58.4	38.8
Arizona	11.9	38.4	16.9
Arkansas	16.6	42.6	72.0
California	11.1	10.7	17.4
Colorado	27.5	52.1	9.6
Connecticut	6.7	23.1	12.7
Delaware	9.7	29.8	11.4
Florida	4.5	11.8	6.1
Georgia	7.9	21.6	8.4
Hawaii	4.0	15.8	7.9
Idaho	8.2	55.3	(D)
Illinois	6.4	26.3	7.0
Indiana	6.0	18.9	24.6
Iowa	7.0	25.8	9.0
Kansas	9.1	44.2	5.8
Kentucky	6.1	29.1	19.9
Louisiana	7.4	18.6	21.9
Maine	6.3	24.3	9.6
Maryland	7.9	21.5	9.2
Massachusetts	8.6	20.7	13.0
Michigan	7.4	18.1	24.5
Minnesota	6.8	21.4	10.4
Mississippi	14.4	40.5	29.0
Missouri	9.6	25.4	8.2
Montana	24.0	34.5	11.6
Nebraska	9.8	29.2	10.5
Nevada	46.9	70.9	9.9
New Hampshire	7.0	21.4	17.1
New Jersey	6.2	19.0	7.5
New Mexico	20.9	25.1	18.3
New York	4.5	32.7	8.1
North Carolina	6.5	20.5	8.5
North Dakota	1.0	60.5	61.7
Ohio	5.3	18.0	10.4
Oklahoma	12.4	29.9	6.9
Oregon	4.3	17.8	(D)
Pennsylvania	5.3	28.8	11.1
Rhode Island	9.8	37.4	21.5
South Carolina	8.0	30.6	16.4
South Dakota	16.1	30.1	14.0
Tennessee	5.7	42.7	8.5
Texas	13.4	30.4	12.4
Utah	10.5	33.3	10.7
Vermont	7.8	22.4	24.0
Virginia	8.2	26.5	25.5
Washington	19.3	17.6	17.6
West Virginia	8.3	20.9	15.8
Wisconsin	6.5	21.4	25.8
Wyoming	13.3	43.0	4.3
Water Resources Regions			
Region 01 New England	2.7	16.7	14.5
Region 02 Mid-Atlantic	3.0	12.3	6.3
Region 03 South Atlantic-Gulf	2.8	10.0	4.0
Region 04 Great Lakes	3.7	14.8	20.8
Region 05 Ohio	3.5	28.0	9.3
Region 06 Tennessee	8.0	23.3	13.9
Region 07 Upper Mississippi	3.7	12.2	12.2
Region 08 Lower Mississippi	8.7	21.1	14.6
Region 09 Souris-Red-Rainy	20.8	61.2	79.1
Region 10 Missouri	12.9	28.3	8.9
Region 11 Arkansas-White-Red	8.9	20.6	35.7
Region 12 Texas-Gulf	13.3	31.7	15.1
Region 13 Rio Grande	15.0	24.4	34.2
Region 14 Upper Colorado	13.0	32.7	18.0
Region 15 Lower Colorado	12.0	42.5	17.7
Region 16 Great Basin	12.7	39.4	12.0
Region 17 Pacific Northwest	7.7	16.3	8.5
Region 18 California	11.1	10.9	17.3
Region 19 Alaska	8.0	58.4	38.8
Region 20 Hawaii	4.0	15.8	7.9

Appendix B.
General Explanation and Report Form

DEVELOPMENT OF THE REPORT FORM

Planning for the 2013 Farm and Ranch Irrigation Survey (FRIS) started in 2009 with the closeout of the 2008 FRIS. Extensive correspondence, discussions, and meetings took place with representatives of the Economic Research Service (ERS) regarding 2013 FRIS content. Evaluations from NASS staff of the 2008 FRIS were reviewed. The decision was made to design a single report form version to collect the irrigation data from farm and ranch operators and horticultural producers; a change from the two separate report forms used in the 2008 FRIS. Having one form allowed the same questions to be asked of every producer.

The U.S. Department of Agriculture (USDA) Water Initiative Team, along with individuals from government organizations and universities with expertise in agricultural irrigation and the irrigation industry, were solicited for input on the new report form content and design. A draft of the report form was developed in headquarters for pretesting. FRIS team members administered the pretest to local operations. The pretest had several objectives. The first objective was to find out whether respondents were able to correctly interpret the questions and whether or not they were able to answer them. Since the FRIS report form was intended to be self-administered, another objective was to determine whether respondents could easily navigate through the report form. This was a critical component to the pretest, since horticultural producers would not have a tailored version like the one they received in the 2008 FRIS. Results of the pretest lead to a redesign of the report form.

DATA CHANGES

Information concerning the data changes from 2003, 2008, and 2013 are described here.

Publication Changes

2003: Data were published for irrigating farms and ranches and included data for horticultural operations that reported less than $10,000 in sales in the 2002 Census of Agriculture. The 2003 FRIS table structure is similar to 2008 FRIS Chapter 1 tables.

2008: Two report forms were used – one for farm and ranch operations and another for horticultural operations with any sales in 2008. Data for farm and ranch operations were published in Chapter 1, Tables 1 through 43 (General Data). Horticultural operations data were published in Chapter 2, Tables 1 through 9 (Horticultural Operations Data). To bridge the 2003 tables with the 2008 Chapter 1 tables, the 2003 U.S. data were adjusted in the 2008 publication by removing data for horticultural operations with less than $10,000 in sales.

2013: A single report form was used to collect data from irrigating farm and ranch operations and from horticultural operations with any level of sales. Data published in Tables 2 through 39 (Entire Farm Data) are for all irrigating operations – farms and ranches and horticultural operations combined. Data are not comparable between the 2013 and 2008 surveys because horticultural operations' data were reported separately in 2008 (Chapter 2). The 2013 horticultural operations data in Tables 40 through 45 are comparable with their corresponding 2008 Chapter 2 tables. To provide a measure of comparability in the 2013 tables, the 2008 U.S. data were adjusted, where possible, to include the 2008 horticultural operations data. In many of the first 27 tables, 2008 U.S. data were omitted.

Table Assignment Changes Between 2008 and 2013 - The table order has changed from 2008 to 2013. The table below provides a general guide as to

where similar data are available in the two FRIS publications.

2013 Tables	Correlated 2008 Tables
1	Chapter 1, table 1
2	Chapter 1, table 2
3	Chapter 1, table 3
4	Chapter 1, table 11
5	Chapter 1, table 11
6	Chapter 1, table 12
7	Chapter 1, table 14
8	Chapter1, tables 15 and 16
9	Chapter 1, table 17
10	Chapter 1, table 18
11	Chapter 1, table 19
12	Chapter 1, table 20
13	Chapter 1, table 21
14	Chapter 1, table 22
15	Chapter 1, table 23
16	Chapter 1, table 25
17	Chapter 1, table 26
18	Chapter 1, table 32
19	Chapter 1, table 33
20	Chapter 1, table 34
21	Chapter 1, table 35
22	Chapter 1, table 36
23	Chapter 1, table 38
24	Chapter 1, table 39
25	Chapter 1, table 41
26	Chapter 1, table 42
27	Chapter 1, table 43
28	Chapter 1, table 4
29	Chapter 1, table 5
30	Chapter 1, table 6
31	Chapter 1, table 7
32	Chapter 1, table 8
33	Chapter 1, table 9
34	Chapter 1, table 10
35	Chapter 1, table 27
36	Chapter 1, table 28
37	Chapter 1, table 29
38	Chapter 1, table 30
39	Chapter 1, table 37
40	Chapter 2, table 1
41	Chapter 2, table 2
42	Chapter 2, table 3
43	Chapter 2, table 4
44	Chapter 2, table 8
45	Chapter 2, table 9

Several tables were affected by changes to the report form sections. Some tables that appeared in the 2008 FRIS are not published in the 2013 FRIS, including Chapter 1 tables 13, 24, 31, and 40 and Chapter 2 tables 5, 6, and 7. Table 3 was updated to reflect changes that were made to the land use categories in Section 2 of the FRIS report form; specifically the types of pasture – permanent, woodland pastured, and other pasture. The change was made to align FRIS with the 2012 census.

The subirrigation method of water distribution for acres in the open was not included on the 2013 FRIS report form. This change affected Tables 28, 31, 32, and 39. The data for this method are now reported in the Other gravity item. In 2008 data were collected for five categories of Uncontrolled flooding and Other gravity methods and were published in Table 7. Only data for the total acres of each of these conveyance systems were collected and published in 2013.

Wells capable of being used, irrigation water transfers, and other uses of irrigation water are no longer published. Crops with small acreages have high variability because of the sample size. Sugarbeets, barley, and tobacco were removed as individual items in the field crops sections. Respondents reported these in the Other small grains or Other crops categories on the report form.

Water management practices for gravity irrigation were combined into four categories in Table 39.

DEFINITIONS AND EXPLANATIONS

This section provides definitions and explanations of specific terms and phrases used on the reports forms or in the tables. Items in the publication tables that carry the note "see text" also are explained.

Acre-feet of water. An acre-foot of water is the quantity of water required to cover one acre to a depth of one foot. This is equivalent to 43,560 cubic feet or 325,851 gallons.

Acres and quantity harvested. If two or more crops were harvested from the same land during the year (double cropping), the acres were counted for each crop. Therefore, the total acres of all crops harvested generally exceeded the acres of cropland harvested. An exception to this procedure was hay crops.

When more than one cutting of hay was taken from the same acres, the acres were counted only once, but the quantity harvested includes all cuttings. For interplanted crops or ''skip-row'' crops, acres were reported according to the portion of the field occupied, whether by a crop or whether it was idle land.

If a crop was interplanted in an orchard or vineyard and harvested, then the entire orchard or vineyard acreage was reported under land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees and the interplanted estimated crop acreage was reported under the appropriate crop.

Acres of land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees were included in cropland harvested whether the crop was harvested or not.

Acres irrigated. Acres or area irrigated are the acres of agricultural land to which water was applied by any artificial or controlled means such as sprinklers, flooding, furrows, ditches, gated pipe, hand watered, capillary mats, trough irrigation, ebb-and-flood irrigation, subirrigation, and spreader dikes including preplanted, partial, and supplemental irrigation. Land flooded was to be included as irrigated only if the water was diverted to agricultural land by dams, canals, or other works. Table 1 provides a comparison with the 2013 FRIS data and the 2012 Census of Agriculture data. Table A in this appendix also provides census data for the leading irrigation States for 2002, 2007, and 2012.

Acres irrigated affected by expenditure. This is a new item in 2013. It is the number of acres which were affected by the reported cost of the expenditures. It is not comparable with Acres irrigated in the expenditure tables in the 2008 and earlier FRIS publications.

Acres irrigated on farms with any hired or contract labor. This is a new item for 2013. This is the total acres irrigated on the operation. On some operations hired labor or contract labor were paid for work on all the acres in the operation. On other operations hired labor or contract labor were paid for work on only part of the total acres irrigated in the operation.

All other crops. Data relate to any non-vegetable crops not having a specified code on the 2013 Farm and Ranch Irrigation report form. Crops such as grass seed, sunflower seed, sugarcane, etc. were included in other field crops. Data are comparable.

All other land. This category includes farmsteads, buildings, livestock facilities, ponds, roads, ditches, wasteland, etc. It includes those acres in the farm operation not classified as cropland, woodland, pastureland, or rangeland.

Application of commercial fertilizers or pesticides in irrigation water. This inquiry was intended to measure the number of farms and acres on which fertilizer and pesticides were distributed through irrigation systems.

Area in the open - acres irrigated. Acres in the open irrigated is the total area irrigated for horticultural crops grown in the open, whether harvested or not.

Area under protection - square feet irrigated. The total area used to grow horticultural crops under protection, whether harvested or not.

Artesian wells. Artesian or flowing wells are wells which flow freely and provide water used for irrigation without pumping during the irrigation season. All flowing or artesian wells were excluded from data for pumped wells.

Average hours of operation. The average hours of operation for pumped wells was calculated from the reported hours operated for up to three individual wells and the average hours for the remaining wells, if any. Artesian wells were not included in the average hours calculation.

Average operating pressure. The average operating pressure for pumped wells was reported for up to three individual wells and as the average operating pressure for the remaining wells, if any. Artesian wells are not included as wells pumped. The average operating pressure was calculated using these reported data.

Average pumping capacity. The average pumping capacity for pumped wells was reported for up to three individual wells and as the average pumping

capacity for the remaining wells, if any. Artesian wells are not included as wells pumped. The average pumping capacity was calculated using these reported data.

Barriers to making improvements to reduce energy use or conserve water. This item shows the barriers to implementing improvements that might reduce energy and/or conserve water. Respondents were asked to report for the period covering 2009 to 2013. The information was tabulated as reported. No imputation was made for a blank response.

Cropland harvested. This category includes land from which crops were harvested and hay was cut, land used to grow short-rotation woody crops, and land in orchards, citrus groves, Christmas trees, vineyards, nurseries, and greenhouses. Land from which two or more crops were harvested was counted only once. Land in tapped maple trees was included in woodland.

Cropland not harvested or grazed. This category includes acreage which could have been used for crops without any additional improvement and which was not reported as cropland harvested or other pasture or grazing land that could have been used for crops without additional improvements. This category includes:

1. Land used for cover crops or soil improvement but not harvested or grazed.

2. Land in Federal or State conservation programs that was not hayed or grazed in 2013.

3. Land occupied with growing crops for harvest in 2014 or later years (except fruit or nuts in an orchard, grove, or vineyard or berries being maintained for production). Example is acreage planted in winter wheat for harvest in 2014 and no crop was harvested from these acres in 2013.

4. Land in summer fallow in 2013.

5. Land with crops that failed and no crop was harvested on the acreage in 2013.

Crops unit of measurement. Crop units were preprinted on the report forms and respondents were instructed to report crops in these units.

Discharge capacity. See Average operating pressure.

Discharge operating pressure. See Average pumping capacity.

Estimated quantity of water applied. Most water used for irrigation is not metered or measured accurately. The quantity of water data are based on the best estimates provided by irrigators. Generally, in areas with water shortages, such as southern California and Arizona, irrigators are more likely to provide actual quantities of water used than in Mountain States where water shortages may be less of a problem or precise measuring methods are not readily available. In the Mountain States where water from snow-melt is diverted for use in season, the amount of water used may be a rough estimate, seldom a measured figure.

Expenditures for irrigation facilities and equipment. There are six categories of expenditures. The expenditures purposes include; new expansion, water conservation, energy conservation, and scheduled replacement or maintenance. The expenditures are also grouped by primary source of funding.

Farms using off-farm water. Respondents were asked to report the amount (none, some, or all) of off-farm water supplied by the U.S. Bureau of Reclamation, other federal agencies, and all other suppliers. However, many respondents did not answer this question. Instead, the computer edit set the entry to unknown. The number of farms using water from the U.S. Bureau of Reclamation, other federal agencies, and all other suppliers may be understated.

Flowing wells. See Artesian wells.

Gross value of agricultural products sold. See Market value of agricultural products sold.

Horticultural crops. The horticultural data are published in the following categories:

Christmas trees and short rotation woody crops. Includes all trees to be cut in 2013 or later years. Irrigated live Christmas trees were reported in nursery crops.

Floriculture and bedding crops. Includes annual bedding/garden plants, herbaceous perennials, cut flowers and cut cultivated greens, foliage plants for indoor or patio use, potted flowering plants, and other floriculture type crops.

Food crops grown under protection. Includes all food crops that were grown in a greenhouse or under some sort of structure that regulated light, shade, temperature, etc. No food crops grown in open fields were reported for this crop type.

Mushroom crops. Includes all mushroom species that were irrigated in 2008. Logs were converted to and reported in square feet.

Nursery crops. Includes deciduous shade and flowering trees, broadleaf and coniferous evergreens, live Christmas trees for sale as potted trees or balled and burlapped, fruit and nut plants, ornamental grasses, palms for landscaping, shrubs, vines, aquatic plants, and other woody ornamentals.

Propagative materials. Includes dry bulbs, corms, tubers, and rhizomes; cuttings, seedlings, liners, and plugs; flower seeds; vegetable seeds; vegetable transplants; and tobacco transplants.

Sod. Includes all irrigated sod, sprigs, or plugs.

Other horticultural crops. This category includes all crops that are primarily considered ornamental or horticultural and are not listed. Fruit, nut, and vegetable crops grown in the open are not considered horticultural crops.

Institutional, research, and experimental farms. In the 2012 and 2007 Censuses of Agriculture, data for these farms were combined with American Indian reservation farms into one category. However, in the 2013 and 2008 Farm and Ranch Irrigation Surveys, only American Indian reservation farms were included in the sample while institutional, research, and experimental farms were excluded.

Irrigated farms. Irrigated farms or ranches are those with any agricultural land irrigated by any artificial or controlled means in the specific calendar year. The acreage irrigated may vary from a very small portion of the total acreage in the farm or ranch to irrigation of all agricultural land in the farm or ranch. This includes reclaimed water and livestock lagoon wastewater distributed by sprinkler or flood systems.

Irrigated land. Irrigated land is defined as "all land watered by artificial or controlled means." No attempt was made to define the degree or intensity of irrigation. Therefore, the data for irrigated land include land with as little as one-half inch of water applied as well as land with several acre-feet of water applied.

Irrigation pumps. The inventory data for number of irrigation pumps include well pumps and pumps other than well pumps used for irrigation on the operation.

Land in farms. The acreage designated as ''land in farms'' consists primarily of agricultural land used for crops, pasture, or grazing. It also includes woodland and wasteland not actually under cultivation or used for pasture or grazing, provided it was part of the farm operator's total operation. Large acreages of woodland or wasteland held for nonagricultural purposes were removed from individual reports during the data review process. Land in farms includes idle cropland, cropland not harvested, and land in government conservation programs.

Land in farms is an operating unit concept and includes land owned and operated as well as land rented from others. Land used rent free was reported as land rented from others. All grazing land, except land used under government permits on a per-head basis (AUM), was included as land in farms provided it was part of a farm or ranch. All land in American Indian reservations used for growing crops or grazing livestock was included as land in farms. Land in reservations not reported by individual American Indians or non-Native Americans was reported in the name of the cooperative group that used the land. In some instances, an entire American Indian reservation was reported as one farm.

Market value of agricultural products sold. This category represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place during the survey year, regardless of who received the payment.

It includes sales by the operators as well as the value of any shares received by partners, landlords, contractors, or others associated with the operation. It represents the sum of all crops, including nursery products, and livestock and poultry and their products. Market value of agricultural products sold does not include payments received for participation in federal farm programs. Also, it does not include income from farm-related sources such as customwork and other agricultural services, or income from nonfarm sources.

Nonirrigated crop yields. The nonirrigated crop yield averages are for nonirrigated crops harvested from irrigated farms and are not comparable with nonirrigated crop yield averages for total farms in the State.

North American Industry Classification System. The North American Industry Classification System (NAICS) classifies economic activities. It was jointly developed by Mexico, Canada, and the U.S. The NAICS makes it possible to produce comparable industrial statistics for Mexico, Canada, and the U.S. Farms were classified by NAICS code based on their 2012 census report(s). Establishments primarily engaged in crop production are classified in major group 111. Establishments primarily engaged in production of livestock and animal specialties are classified in major group 112. Establishments are further classified into the appropriate six-digit code for the commodity or commodities which account for one-half of the establishment's agricultural production.

Off-farm water supply. Off-farm water supply is water from off-farm water suppliers, such as the U.S. Bureau of Reclamation; irrigation districts; mutual, private, cooperative, or neighborhood ditches; commercial companies; or community water systems. It includes reclaimed water from off-farm livestock facilities, municipal, industrial, and other reclaimed water sources

On-farm surface supply. On-farm surface supply is water from a surface source not controlled by a water supply organization. It includes sources such as streams, drainage ditches, lakes, ponds, reservoirs, and on-farm livestock lagoons on or adjacent to the operated land.

Other drip, trickle, or low-flow micro systems. This category is for any drip, trickle, or low-flow micro systems that were not included in the other three specific descriptions.

Other or unspecified discontinuance. This category is for any discontinuance reason that was not specified on the report form.

Other pasture and grazing land that could have been used for crops without additional improvements. This category includes land used only for pasture or grazing that could have been used for crops without additional improvement. Also included are acres of crops hogged or grazed but not harvested prior to grazing. However, cropland that was pastured before or after crops were harvested was included as harvested cropland rather than cropland for pasture or grazing. In 2008 this item was referred to as Cropland used only for pasture or grazing; data are comparable.

Other small grains (barley, oats, rye, etc.). This category is not comparable with 2008 or earlier FRIS publications. In previous report forms, barley had its own specific code. In 2013 it did not have a specific code and is included with Other small grains.

Other sprinkler systems. This is a new category for 2013. It includes any sprinkler system that was not listed on the report form.

Permanent pasture and rangeland. This land use category encompasses grazable land that does not qualify as woodland pasture or cropland pasture. It may be irrigated or dry land. In some areas, it can be a high quality pasture that could not be cropped without improvements. In other areas, it is barely able to be grazed and is only marginally better than wasteland. In 2008 this category was referred to as Other pastureland and rangeland; data are comparable.

Primary source of funding assistance. Respondents were instructed to only report the primary source of funding assistance for expenditures. Nonresponses to this item were summarized as "No funding assistance."

Pumps by average operating pressure. See Average operating pressure.

Pumps by average discharge operating pressure. This category is the average pressure of pumps, other than well pumps, used on the operation.

Reason for discontinuance of irrigation since 2012. These data reflect the expanded number of operations that irrigated in 2012 but not in 2013 and the acres or area irrigated in the previous census year. The data also show the reason for discontinuance. Some respondents reported multiple reasons, while others gave no specific reason.

Reclaimed water. Reclaimed water is wastewater that has been treated for non-potable reuse purposes. Sources include municipal, industrial, off-farm livestock operations, and other reclaimed water sources. Water from off-farm livestock facilities, municipal, industrial, and other reclaimed water sources were reported as off-farm supplies. While reclaimed water from on-farm livestock facilities were reported as on-farm surface water.

Recycled water. Recycled water is the reuse of surface or ground water that has already been used to irrigate a crop on the operation. Recycled water use was reported as on-farm surface water.

Solar pumps. The data were not published at the State level because of low data reliability at the State level. There are few operations with solar pumps in the population.

Sources of irrigation information. These data show which sources were used by farmers to help them make irrigation decisions. The information for this item was tabulated as reported. No imputation was made for a blank response.

Sprinkler systems. Center pivot systems are published as either high-pressure delivery with water delivered at 60 psi or more, medium pressure delivery with water delivered at 30 to 59 psi, or low pressure delivery with water delivered at less than 30 psi. Linear move tower and solid set or permanent systems are published as medium to high pressure at 30 psi or more or low pressure, less than 30 psi. The mechanical-move systems are further classified as either linear move, side roll, wheel move, or big gun where the sprinkler device is moved across the field either by self-propelled methods or by tractor. Hand move systems include any distribution systems which are moved without mechanical assistance.

Other sprinkler systems include any other system not listed on the report form.

Tailwater pits. Irrigation water is captured after the initial application of irrigation water. The water drains into a collection pit and is returned through an irrigation system to irrigate the same field or other fields.

Total cropland. This category includes cropland harvested, cropland used only for pasture or grazing, cropland idle or used for cover crops or soil improvement but not harvested and not pastured or grazed, cropland on which all crops failed or were abandoned, and cropland in cultivated summer fallow.

Water management practices. These practices refer to gravity irrigation systems only. The respondent reported whether they used any of the techniques listed on the report form and the number of acres on which they applied this technique. Some respondents answered "Yes" to the screening question, item 1 in Section 17, but did not indicate which technique they used or the number of acres for any technique. No imputation was made for a blank response.

Water Resources Regions (WRR). Data from FRIS were tabulated by WRR. Boundaries of these areas are shown on the map on page 1. Geographic descriptions of the areas used to approximate water resources region are as follows:

01 New England Region. The drainage within the United States that ultimately discharges into the Bay of Fundy and the Atlantic Ocean. These points of discharge are located within and between Maine and Connecticut; Long Island Sound and the St. Francis River, a tributary of the St. Lawrence River.

02 Middle Atlantic Region. The drainage within the United States that ultimately discharges into the Atlantic Ocean, whose point of discharge is located within and between New York and Virginia, and the Richelieu River, a tributary of the St. Lawrence River.

03 South Atlantic-Gulf Region. The drainage that ultimately discharges into the Atlantic Ocean, whose point of discharge is located within and between North Carolina and Florida; and the Gulf of Mexico, whose point of discharge is located within and between Florida and Mississippi, including the Pearl River.

04 Great Lakes Region. The drainage within the United States that discharges into the Great Lakes system, including the Lakes' surfaces; and the St. Lawrence River as far east as, but excluding the Richelieu River.

05 Ohio Region. The drainage of the Ohio River, excluding that of the Tennessee River.

06 Tennessee Region. The drainage of the Tennessee River.

07 Upper Mississippi Region. The drainage of the Mississippi River above the mouth of the Ohio River, excluding drainage of the Missouri River above a point immediately below the mouth of the Gasconade River.

08 Lower Mississippi River. The drainage of the Mississippi River below the mouth of the Ohio River, but excluding the drainage of the Arkansas, White, and Red Rivers and above the points of highest backwater affects of the Mississippi River in those parts; and the coastal streams, other than the Mississippi River, that discharge into the Gulf of Mexico from the boundaries of, but excluding the Pearl and Sabine Rivers.

09 Souris-Red-Rainy Region. The drainage within the United States of the Souris, Red, and Rainy Rivers.

10 Missouri Region. The drainage within the United States of the Missouri River above a point immediately below the mouth of the Gasconade River and the Saskatchewan River.

11 Arkansas-White-Red Region. The drainage of the Arkansas River above the point of highest backwater affect of the Mississippi River, the Red River above the point of highest backwater affect of the Mississippi River, and the White River above the point of highest backwater affect of the Mississippi River near Peach Orchard Bluff, AR.

12 Texas-Gulf Region. The drainage that discharges into the Gulf of Mexico from and including Sabine Pass to, but excluding, the Rio Grande and the Lower Rio Grande Valley.

13 Rio Grande Region. The drainage within the United States of the Rio Grande; the San Luis Valley, North Plains, San Augustine Plains, Mimbres, Estancia Jonado del Muerto, Tularosa, Salt, and various smaller closed basins; and the Lower Rio Grande Valley.

14 Upper Colorado Region. The drainage of the Colorado River above the Lee Ferry Compact Point, which is about 1 mile below the mouth of the Paria River; and the Great Divide closed basin.

15 Lower Colorado Region. The drainage within the United States of the Colorado River below the Lee Ferry Compact Point, which is about 1 mile below the mouth of the Paria River; the Rios Yaqui, Magdelena, Sonoita, and other lesser streams that ultimately discharge into the Gulf of California; and the Animas Valley, Wilcox Playa, El Dorado Valley, and other smaller closed basins.

16 Great Basin Region. The drainage of the Great Basin that ultimately discharges into Utah and Nevada.

17 Pacific-Northwest Region. The drainage within the United States that ultimately discharges into the Straits of Georgia and Juan de Fuca and the Pacific Ocean. The point of discharge is within Washington and Oregon, including the Columbia River.

18 California Region. The drainage within the United States that ultimately discharges into the Pacific Ocean, whose point of discharge is within California, which includes the Central Valley; and that portion of the Great Basin and other closed basins in California.

19 Alaska. Entire State.

20 Hawaii. Entire State.

Woodland not pastured. These acres were included in All other land. Woodland includes

natural or planted woodlots or timber tracts and cutover and deforested land with young growth which has or will have value for wood products and woodland pastured. Land planted for Christmas tree production and short rotation woody crops was reported in Cropland harvested.

Woodland pastured. This category includes all woodland used for pasture or grazing during the census year. Woodland or forest land pastured under a per-head grazing permit was not counted as land in farms and, therefore, was not included in woodland pastured.

Table A. **Leading Irrigation States: 2012, 2007, and 2002 Censuses**

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Irrigated Area			Rank			2012 cumulative percent of United States total
	2012	2007	2002	2012	2007	2002	
United States	55,822,231	56,599,305	55,311,236	(X)	(X)	(X)	100.0
20 Leading States	50,714,404	51,745,677	50,812,487	(X)	(X)	(X)	90.8
Nebraska	8,296,573	8,558,559	7,625,170	1	1	2	14.9
California	7,861,964	8,016,159	8,709,353	2	2	1	28.9
Arkansas	4,803,902	4,460,682	4,149,766	3	4	4	37.6
Texas	4,489,163	5,010,416	5,074,638	4	3	3	45.6
Idaho	3,365,292	3,299,889	3,288,522	5	5	5	51.6
Kansas	2,881,292	2,762,748	2,678,277	6	7	6	56.8
Colorado	2,516,785	2,867,957	2,590,654	7	6	7	61.3
Montana	1,903,019	2,013,167	1,976,111	8	8	8	64.7
Mississippi	1,651,978	1,368,661	1,175,530	9	13	13	67.7
Washington	1,633,571	1,735,917	1,823,155	10	10	10	70.6
Oregon	1,629,735	1,845,194	1,907,627	11	9	9	73.5
Florida	1,493,320	1,552,118	1,815,174	12	11	11	76.2
Wyoming	1,435,710	1,550,723	1,541,688	13	12	12	78.8
Missouri	1,180,886	1,199,981	1,032,973	14	14	15	80.9
Georgia	1,125,355	1,017,773	870,810	15	16	18	82.9
Utah	1,104,257	1,134,144	1,091,011	16	15	14	84.9
Louisiana	1,092,881	954,353	938,841	17	17	16	86.8
Arizona	880,613	876,158	931,735	18	18	17	88.4
Nevada	687,790	691,030	746,653	19	20	20	89.6
New Mexico	680,318	830,048	844,799	20	19	19	90.8

OMB No. 0535-0234: Approval Expires 09/30/2016

2013 FARM AND RANCH IRRIGATION SURVEY

Form Number: 13-A621
(09/10/2013)

USDA

AGRICULTURE COUNTS NASS

National Agricultural
Statistics Service

Return your
completed report to:

Census of Agriculture
1201 East 10th Street
Jeffersonville, IN 47132

OFFICE USE ONLY 0010

13-A621

Make corrections to name, address, and ZIP Code if necessary.

- **February 10, 2014** – Everyone who receives a form must return one by this date.
- **www.agcounts.usda.gov** – Use this website to report via the Internet.
- **Horticultural crops in the open or under protection** – Report these crops on this form.
- Use **blue or black ballpoint pen** to complete this form.
- **Duplicate form(s)** – If you received extra report forms for the SAME farming operation, return all report forms in the same envelope as the completed report.
- **Questions** – Call us toll-free at 1-888-424-7828. Thank you for your cooperation.

SECTION 1 ACREAGE IN 2013

Report land owned, rented, or used by you, your spouse, or by the partnership, corporation, or organization named on the label above. Round to whole acres. Include ALL LAND, regardless of location or use – cropland, pastureland, rangeland, woodland, idle land, **greenhouses or other area under protection**, farmsteads, Conservation Reserve Program (CRP) land, etc.

		None		Number of Acres
1. All land owned	0025	☐		
2. All land rented or leased **from others**, including land worked by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include Federal, State and railroad land leased on a per-acre basis. Exclude leased land (e.g., private, Federal, State, railroad) used on a per-head or animal unit month (AUM) basis under a grazing permit	0026	☐	+	
3. All land rented or leased **to others,** including land worked on shares by others and land subleased	0027	☐	-	
				BOX A
4. **TOTAL ACRES** in this operation (Items 1 + 2 - 3 = **BOX A**)	0028	☐	=	

NOTICE: Response to this inquiry is required by law (Title 7, U.S. Code). By the same law and Public Law 107-347, YOUR REPORT IS CONFIDENTIAL and will only be used for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are immune from legal process. http://www.agcensus.usda.gov/About_the_Census/Regulations_Guiding_NASS/index.asp

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0234. The time required to complete this information collection is estimated to average 45 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

21303011

SECTION 2 LAND IN 2013

Of the acres reported in **Box A** on the previous page, report how all the land was used in **column 1** below. Round to whole acres. If the same land had more than one use in 2013, report that land only one time in items 1 through 3. The total acres in **BOX B** must equal the total acres reported in **BOX A**. **Include area under protection.** (Under protection includes horticultural crops grown under glass, rigid plastic, and plastic film, including "tunnel" protection and hoop houses.)

Irrigated acres in column 2 – Report irrigated land in this operation in items 1 and 2 and the total irrigated land in **BOX C**. Include the irrigated area under protection and round all entries to the nearest whole acre. Include as irrigated any land to which partial, supplemental, or preplant irrigation water was applied. Hayland, pastureland, or rangeland should be reported as irrigated only if water was spread by canals, ditches, spreader dikes, pipes, or other man-made works.

	None	Column 1 Number of Acres		None	Column 2 Acres Irrigated	
1. **Cropland – Exclude cropland used only for pasture.**						
a. Cropland harvested – Include all land from which crops were harvested or hay was cut. Include acreage in orchards, citrus groves, vineyards, berries, Christmas trees, short-rotation woody crops, and **nursery and greenhouse crops in the open and under protection.**	☐	0029		☐	0030	
b. Cropland not harvested or grazed – Include cropland on which all crops failed, cropland idle, cropland used for cover crops or CRP, and cropland in summer fallow	☐	0033		☐	0034	
2. **Pasture**						
a. Permanent pasture and rangeland	☐	0135		☐	0136	
b. Woodland pastured	☐	0137				
c. Other pasture and grazing land (including rotational pasture) that could have been used for crops without additional improvements.	☐	0107		☐	0108	
3. **All other land** – Include land not reported above. Include woodland not pastured, farmsteads, home, buildings, livestock facilities, ponds, roads, wasteland, etc.	☐	0039				

	None	Total Acres on this Operation BOX B		None	Total Acres Irrigated BOX C	
4. **TOTAL ACRES** – Add acres in each column and enter the totals.	☐	0041		☐	0042	

(**BOX B** should be the same as **BOX A** on page 1.)

5. Was any area in the open or under protection irrigated on this operation in 2013? Include irrigated field crops; irrigated hay; and irrigated nursery, floriculture, greenhouse, mushrooms, and propagative materials grown under protection.

0003 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 22 on back page

		State
6. What State had the majority of irrigated acres on this operation in 2013?	0951	

21303029

SECTION 3 GROUND WATER FROM WELLS USED ON THIS OPERATION IN 2013

1. Did this operation irrigate with ground water from wells on this operation in 2013?

0760 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 4

If exact amounts are not available, provide your best estimate for quantity of water applied. If total area irrigated in the open is less than one acre, report as one acre in item 2. If the wells are not on the operation, such as a municipal or rural water system, report this as off-farm water in Section 5.

2. Report acres in the open irrigated with ground water and amount of water applied in 2013. Include irrigated horticultural crops grown in the open and irrigated pastureland . . . . . .

Acres in the Open Irrigated by Ground Water		Quantity of Ground Water Applied		Unit of Measure [Enter unit code] 1 Total Acre Feet 2 Total Gallons 3 Inches/Acre	
0444		0446		0447	

3. Report the area under protection irrigated with ground water in 2013. (Note: *The amount of ground water applied to the area under protection will be reported in a later section.*). . . . . None ☐

Square Feet Under Protection Irrigated with Ground Water	
0455	

4. How many wells on this operation were used in 2013? . . . . . .

Number of Wells	
0460	

a. Of the (item 4) wells, how many were free flowing (artesian wells)?. . . . . None ☐

0486	

b. Of the (item 4) wells, how many used backflow prevention devices (check valves) and how many acres and/or square feet under protection were irrigated with these wells in 2013?. . . . . None ☐

Number of Wells		Acres in the Open		Square Feet Under Protection	
0770		0771		0679	

c. Of the (item 4) wells, how many had flow meters or other flow measurement devices and how many acres and/or square feet under protection were irrigated with these wells in 2013?. . . . . ☐

0683		0772		0680	

5. Report for the first three primary wells pumped in 2013.

WELL #	Depth of Well (Feet)		Depth to Water at Start of Irrigation Season (Feet)		Depth to Bowls or Impellers (Feet)		Pump Capacity – Discharge From Well (GPM)		Operating Pressure at Well Head (PSI)		Size of Engine for All Motors, Including Electric (HP)		Total Hours Operated in 2013	
1	0461		0462		0463		0464		0676		0761		0762	
2	0465		0466		0467		0468		0677		0763		0764	
3	0469		0470		0471		0472		0678		0765		0766	

a. Report for all **other** wells pumped in 2013.

OTHER WELLS	Average Depth of Well(s) (Feet)		Average Depth to Water at Start of Irrigation Season (Feet)		Average Depth to Bowls or Impellers (Feet)		Average Pump Capacity – Discharge From Well (GPM)		Average Operating Pressure at Well Head (PSI)		Average Size of Engine for All Motors, Including Electric (HP)		Average Hours Operated in 2013	
	0481		0482		0483		0484		0681		0767		0768	

6. For the wells used on this operation, what is the best description for the depth to water over the last five years? Mark (X) one.

0487 1 ☐ Depth to water did not change 2 ☐ Depth to water increased 3 ☐ Depth to water decreased

21303037

SECTION 4 ON-FARM SURFACE WATER USED ON THIS OPERATION IN 2013

1. Did this operation irrigate with on-farm surface water including recycled water and on-farm reclaimed water in 2013?

Recycled water *is the reuse of surface or groundwater that was previously used to irrigate a crop (e.g. water from a tailwater reuse pit used for irrigation).*

On-farm reclaimed water *is* ***on-farm livestock wastewater that has been treated for non-potable reuse purposes.*** *(For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season.)*

0438 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 5

If exact amounts are not available, provide your best estimate for quantity of water applied. If total area irrigated in the open is less than one acre, report as one acre in item 2.

2. Report acres in the open irrigated with on-farm surface water and amount of water applied in 2013. Include irrigated horticultural crops grown in the open and irrigated pastureland. . . . . .

Acres in the Open Irrigated by On-Farm Surface Water		Quantity of On-Farm Surface Water Applied		Unit of Measure [Enter unit code] 1 Total Acre Feet 2 Total Gallons 3 Inches/Acre	
0449		0451		0452	

3. Report the area under protection irrigated with on-farm surface water in 2013. (Note: *The amount of on-farm surface water applied to the area under protection will be reported in a later section.*). . . . . None ☐

Square Feet Under Protection Irrigated with On-Farm Surface Water	
0458	

4. Did this operation use **on-farm recycled water** to irrigate any crops, including horticultural crops, grown during 2013?

0600 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Item 5 below

a. How many acres in the open and square feet under protection were irrigated with **on-farm recycled water** during 2013? . . . . . .

Acres in the Open		Square Feet Under Protection	
0601		0936	

5. Did this operation use **reclaimed water from on-farm livestock facilities** to irrigate any crops, including horticultural crops, grown during 2013? (*For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season. If this minimum amount is not met, mark (X) "No"* below.)

0543 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 5

a. How many acres in the open and/or square feet under protection were irrigated with one or more applications of **reclaimed water from on-farm livestock facilities** during 2013? . . . . . .

Acres in the Open		Square Feet Under Protection	
0587		0588	

b. How much **reclaimed water from on-farm livestock facilities** was used for irrigation during 2013? . . . . . .

Acre-Feet		OR	Gallons	
0599			0561	

21303045

SECTION 5 OFF-FARM WATER FROM ALL SUPPLIERS USED ON THIS OPERATION IN 2013

1. Did this operation irrigate with off-farm water in 2013?

INCLUDE
- *acres in the open and area under protection irrigated with off-farm water from all suppliers*
- *all off-farm surface water, municipal water, and rural water suppliers*
- *area irrigated with reclaimed water from off-farm sources such as municipal reclaimed water, industrial, off-farm livestock operations, or other off-farm sources*

0457 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 6

If exact amounts are not available, provide your best estimate for quantity of water applied. If total area irrigated in the open is less than one acre, report as one acre in item 2. **Off-farm reclaimed water** is wastewater that has been treated for non-potable reuse purposes.

2. Report acres in the open irrigated with off-farm water and amount of water applied in 2013. Include irrigated horticultural crops grown in the open and irrigated pastureland . . . . . .

Acres in the Open Irrigated by Off-Farm Water		Quantity of Off-Farm Water Applied		Unit of Measure [Enter unit code] 1 Total Acre Feet 2 Total Gallons 3 Inches/Acre	
0454		0968		0969	

3. Report the area under protection irrigated with off-farm surface water in 2013. (Note: *The amount of off-farm water applied to the area under protection will be reported in a later section.*) . . . . . None ☐

Square Feet Under Protection Irrigated with Off-Farm Water	
0428	

4. Did you pay for the off-farm water received on this operation?

0675 1 ☐ **Yes** - Report the total dollars paid for the off-farm water. . . . . 3 ☐ **No** - Continue

Dollars	
0456	$ .00

5. How much of this operation's off-farm water was supplied, delivered, or transferred through a project financed, constructed, or managed by –

a. U.S. Bureau of Reclamation? Include reclamation water delivered through a local district. . . . . 0664 1 ☐ None 2 ☐ Some 3 ☐ All

b. Other Federal agencies such as the U.S. Army Corp of Engineers, Bureau of Indian Affairs, and USDA small watershed project? . . . . . 0665 1 ☐ None 2 ☐ Some 3 ☐ All

c. All other suppliers? Specify → 1012 _____ . . 0666 1 ☐ None 2 ☐ Some 3 ☐ All

6. Did this operation use **reclaimed water from off-farm sources** such as municipal reclaimed water, industrial, off-farm livestock operations, or other off-farm sources to irrigate any crops in 2013? (*For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season. If this minimum amount is not met, mark (X) "No" below.*)

0602 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 6

a. How many acres in the open and/or square feet under protection were irrigated with one or more applications of **reclaimed water from off-farm sources** during 2013? . . . . .

Acres in the Open		Square Feet Under Protection	
0597		0598	

b. How much **reclaimed water from off-farm sources** was used for irrigation during 2013?. . . . . .

Acre-Feet		OR	Gallons	
0644			0645	

c. What sources of reclaimed water were used on this operation in 2013? Mark (X) all that apply.

1001 ☐ Municipal 1002 ☐ Industrial

1003 ☐ Off-farm livestock operation 1004 ☐ Other - Specify → 1005 _____

21303052

SECTION 6 PUMPS, OTHER THAN WELL PUMPS, USED FOR IRRIGATION ON THIS OPERATION IN 2013

Report for all surface water source pumps used on this operation for irrigation during 2013.

	None	Number of Pumps Used	Vertical Lift (Average Feet)	Discharge Capacity (Average GPM)	Discharge Operating Pressure (Average PSI)	Average Hours Operated in 2013
		0490	0774	0491	0687	0661
1. Tailwater pits	☐					
		0492	0775	0493	0688	0662
2. Ponds, lakes, reservoirs, rivers, canals, etc	☐					
		0494	0776	0777	0778	0663
3. Relifting or boosting water within system	☐					

SECTION 7 ENERGY EXPENSE BY POWER SOURCE FOR ALL WELL AND OTHER IRRIGATION PUMPS USED ON THIS OPERATION IN 2013

Report the energy expense by power source. Report the fuel and power expense used for pumping irrigation water for the well pumps used in Section 3 and other pumps used in Section 6 above. Report energy expense for acres in the open and area under protection. If irrigated acres in the open were less than one acre, round to one acre. Include the cost of any additional charges such as the fuel adjustment charge or any other type of charge which was based on the amount of power or fuel purchased. Include landlord's share.

POWER SOURCE	None	Number of Wells and Other Pumps Used (*Reported in Sections 3 & 6*)	Cost of Energy Used to Power Pumps (Dollars)	Area Irrigated with Water Pumped from Wells		Area Irrigated with Pumped Surface Water (Both on- and off-farm)	
				Acres in the Open (Whole Acres)	Square Feet Under Protection	Acres in the Open (Whole Acres)	Square Feet Under Protection
		0495	0496	0497	0124	0781	0537
1. Electricity	☐		$ .00				
		0498	0499	0500	0125	0782	0538
2. Natural gas	☐		$ .00				
		0501	0502	0503	0126	0783	0539
3. LP gas, propane, or butane	☐		$ .00				
		0504	0505	0506	0127	0784	0540
4. Diesel and biodiesel fuel	☐		$ .00				
		0507	0508	0509	0128	0890	0541
5. Gasoline, ethanol, and blends	☐		$ .00				
		0779		0780	0129	0786	0542
6. Solar and other pumps without direct energy expense	☐						

21303060

SECTION 8 METHOD OF WATER DISTRIBUTION IN FIELDS IN THE OPEN ON THIS OPERATION IN 2013

Report acres irrigated by each type of FIELD distribution or delivery system listed below. If the same land was irrigated by more than one method of distribution, report acres irrigated by each method used. Report information for the field distribution system, NOT for the delivery system used to convey water from the source to the field, if different. Include acres of horticultural crops grown in the open. Exclude crops grown under protection: glass, rigid plastic, plastic film, including "tunnel" protection. (Methods for crops grown under protection will be reported in Section 13.)

	None	Acres in the Open Irrigated by Gravity System (Field Water Conveyance System)					
		Total	Unlined Open Ditch	Lined Open Ditch	Poly Pipe (or other single-year use, lay-flat tubing)	Above Ground Pipe (except poly pipe)[1]	Underground Pipe[2]
1. Gravity irrigation		0855	0859	0857	0056	0057	0858
a. Down rows or furrows	☐						
b. Controlled flooding (between borders or within basins)	☐	0865	0869	0867	0066	0067	0868
c. Uncontrolled flooding (rangeland, pastureland, etc.)	☐						
d. Other gravity systems	☐	0875	0879	0877	0076	0077	0878
		0885					

[1] Include gated pipe and riser or hydrant systems connected to above ground pipe.
[2] Include riser or hydrant systems connected to underground pipe.

	None	Acres In the Open Irrigated by Sprinkler System			
		Very Low Pressure (Under 15 PSI)	Low Pressure (15 to 29 PSI)	Medium Pressure (30 to 59 PSI)	High Pressure (60 PSI or more)
2. Sprinkler irrigation – Inlet pressure		0569	0576	0575	0570
a. Center pivot systems (circle)	☐				
b. Linear move tower systems (and other linear continuous move drive systems)	☐	0571	0577	0578	0579
c. Solid set or permanent systems (except low-flow micro systems)	☐				
		0568	0565	0566	0567

	None	Acres Irrigated (all pressures)	
d. Mechanical move systems			
(i) Side roll, wheel move, or other mechanical move systems and other discrete move systems	☐	0240	
(ii) Big gun or traveler systems	☐	0241	
e. Hand-move systems, including hand watered horticultural crops grown in the open	☐	0242	
f. Other sprinkler systems	☐	0243	

	None	Acres Irrigated (all pressures)	
3. Drip, trickle, or low-flow micro irrigation			
a. Surface drip (on or above ground)	☐	0248	
b. Sub-surface drip (root zone)	☐	0246	
c. Low-flow micro sprinklers or sprays (apply water at low pressure and are not self-propelled or easily moved)	☐	0247	
f. Other drip, trickle, or low-flow micro systems	☐	0249	

21303078

SECTION 9 ACRES HARVESTED IN THE OPEN AND CROP YIELDS ON THIS OPERATION IN 2013

For each crop listed, report separately the harvested irrigated land and the harvested non-irrigated land. For selected crops, report the average yield from irrigated land and non-irrigated land. Report harvested crops as irrigated if any water was artificially applied either before planting or during the crop's growing season in 2013. Report the crop as irrigated if water was applied to supplement rainfall, even if the amount of water applied was not sufficient to obtain maximum yields. **Include horticultural crops grown in the open in item 16.**

Crops	Irrigated Land (Include preplant and supplemental or semi-irrigation)						Non-Irrigated Land			
	Irrigated Acres Harvested	Average Yield per Irrigated Acre Harvested		Average Estimated Quantity of Water Applied per Acre			Non-Irrigated Acres Harvested	Average Yield per Non-Irrigated Acre Harvested		
				Acre-Feet	Tenths	Inches				
1. Corn for grain or seed – Exclude popcorn and sweet corn . . . . . None ☐	0050	0051	Bu.	0052		0053	0054	0055	Bu.	
2. Corn for silage or greenchop – Exclude popcorn and sweet corn. ☐	0060	0061	Tons	0062		0063	0064	0065	Tons	
3. Sorghum for grain or seed. . . . . ☐	0070	0071	Bu.	0072		0073	0074	0075	Bu.	
4. Wheat for grain or seed. . ☐	0080	0081	Bu.	0082		0083	0084	0085	Bu.	
5. Soybeans for beans . . . . ☐	0106	0101	Bu.	0102		0103	0104	0105	Bu.	
6. Beans, dry edible . . . . . ☐	0110	0111	Cwt.	0112		0113	0114	0115	Cwt.	
7. Rice – Include post harvest water applied to improve residue decomposition . . . . . ☐	0120	0121	Cwt.	0122		0123				
8. Other small grains (barley, oats, rye, etc.) . . ☐	0130			0132		0133	0134			
9. Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage). . ☐	0140	0141	Tons, dry	0142		0143	0144	0145	Tons, dry	
10. All other hay and haylage including small grain, other tame, and wild hay (dry hay, greenchop, and silage). . ☐	0150	0151	Tons, dry	0152		0153	0154	0155	Tons, dry	

OR

21303086

SECTION 9 **Continued –**

Crops		Irrigated Land (Include preplant and supplemental or semi-irrigation)						Non-Irrigated Land	
		Irrigated Acres Harvested	Average Yield per Irrigated Acre Harvested	Average Estimated Quantity of Water Applied per Acre				Non-Irrigated Acres Harvested	Average Yield per Non-Irrigated Acre Harvested
				Acre-Feet	Tenths	OR	Inches		
	None	0550	0551	0552		OR	0553	0554	0555
11. Peanuts	☐		Lbs.						Lbs.
		0160	0161	0162		OR	0163	0164	0165
12. Cotton	☐		Lbs. lint						Lbs. lint
13. All land from which vegetables, potatoes, and melons were harvested	☐	0186	Tenths			0187	OR	0188	0189	Tenths	
		0850	Tenths	0851		0852	OR	0853	0854	Tenths	0975
a. Sweet corn	☐			Cwt.							Cwt.
		0860	Tenths	0861		0862	OR	0863	0864	Tenths	0985
b. Tomatoes in the open . . .	☐			Cwt.							Cwt.
		0870	Tenths	0871		0872	OR	0873	0874	Tenths	0995
c. Lettuce and romaine	☐			Cwt.							Cwt.
		0190	Tenths	0191		0192	OR	0193	0194	Tenths	0195
d. Potatoes – Exclude sweet potatoes . .	☐			Cwt.							Cwt.
		0560	Tenths			0562	OR	0563	0564	Tenths	
14. All berries	☐										
15. Land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees	☐	0210	Tenths			0212	OR	0213	0214	Tenths	
16. All other crops grown in the open and not listed – Include horticultural crops grown in the open (*Note: Horticultural crops grown under protection will be reported in a later section.*) Specify below ☒		0220				0222	OR	0223	0224		
0221	☐										
		0230				0232	OR	0233			
17. Pastureland, all types	☐										

21303094

SECTION 10 PRIMARY METHOD OF FIELD WATER DISTRIBUTION, WATER SOURCE, AND ACREAGE OF CHEMIGATION IN IRRIGATION WATER FOR CROPS IRRIGATED IN THE OPEN IN 2013

WATER DISTRIBUTION I.D. CODES

PRESSURE SYSTEMS

01 = Hand-move system
02 = Solid set or permanent system
03 = Side roll or wheel line system
04 = Big gun or traveling gun system
05 = Linear move system (under 15 PSI)
06 = Linear move system (15 to 29 PSI)
07 = Linear move system (30 to 59 PSI)
08 = Linear move system (60 PSI or more)
09 = Center pivot system (under 15 PSI)
10 = Center pivot system (15 to 29 PSI)
11 = Center pivot system (30 to 59 PSI)
12 = Center pivot system (60 PSI or more)
13 = Low-flow irrigation (drip, trickle, or micro sprinkler system)
14 = Other pressure system – Specify below ☒

1006

GRAVITY SYSTEMS

15 = Down rows or furrows from unlined open ditches
16 = Down rows or furrows from lined open ditches
17 = Down rows or furrows from poly pipe, lay-flat tubing, or above ground or underground pipe
18 = Controlled flooding within field borders from unlined open ditches
19 = Controlled flooding within field borders from lined open ditches
20 = Controlled flooding within field borders from poly pipe, lay-flat tubing, or above ground pipe
21 = Controlled flooding within field borders from underground pipe
22 = Uncontrolled flooding (rangeland, pastureland, etc.) including open discharge from a well or pump
23 = Other gravity system – Specify below ☒

1007

Report for irrigated acres in the open. For each irrigated crop in the open, report separately the primary field distribution method, acres irrigated by water source, and acres on which chemigation was used in the irrigation system. Refer to the table above for the water distribution I.D. codes.

Irrigated Crops	Primary method of field water distribution (Enter I.D. code from above.)	Water source (Column totals may exceed irrigated crop acres reported in Section 9 when more than one water source was used.)			Acres on which chemigation was applied through the irrigation system	
		Ground Water from Wells (Acres)	On-Farm Surface Water[1] (Acres)	Off-Farm Water (All Suppliers)[2] (Acres)	Commercial Fertilizer (Acres)	Pesticide Application (Acres)
1. Corn for grain or seed – Exclude popcorn and sweet corn . . . . . None ☐	0250 I.D.	0255	0254	0256	0252	0253
2. Corn for silage or greenchop – Exclude popcorn and sweet corn . . . . . ☐	0260 I.D.	0265	0264	0266	0262	0263
3. Sorghum for grain or seed. . . ☐	0270 I.D.	0275	0274	0276	0272	0273
4. Wheat for grain or seed. . . . . ☐	0280 I.D.	0285	0284	0286	0282	0283
5. Soybeans for beans. . . . . ☐	0300 I.D.	0305	0304	0306	0302	0303
6. Beans, dry edible. . . . . ☐	0310 I.D.	0315	0314	0316	0312	0313
7. Rice . . . . . ☐	0320 I.D.	0325	0324	0326	0322	0323
8. Other small grains (barley, oats, rye, etc.). . . . . ☐	0330 I.D.	0335	0334	0336	0332	0333
9. Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage). . . . . ☐	0340 I.D.	0345	0344	0346	0342	0343
10. All other hay including small grain, other tame, and wild hay (dry hay, greenchop, and silage) . . . . . ☐	0350 I.D.	0355	0354	0356	0352	0353

[1] On-farm water source includes recycled water and reclaimed water from on-farm livestock operations.
[2] Off-farm water supplies may include water purchased from the U.S. Bureau of Reclamation; a State, county, or local district; mutual, private, cooperative, or neighborhood ditches; or commercial or municipal water systems.

21303102

SECTION 10 Continued –

Irrigated Crops		Primary method of field water distribution (Enter I.D. code from previous page.)	Water source (Column totals may exceed irrigated crop acres reported in Section 9 when more than one water source was used.) Ground Water from Wells (Acres)		On-Farm Surface Water[1] (Acres)		Off-Farm Water (All Suppliers)[2] (Acres)		Acres on which chemigation was applied through the irrigation system Commercial Fertilizer (Acres)		Pesticide Application (Acres)	
	None	0580	0585		0584		0586		0582		0583	
11. Peanuts	☐	I.D.										
		0360	0365		0364		0366		0362		0363	
12. Cotton	☐	I.D.										
13. All acres in the open from which vegetables, potatoes, and melons were harvested	☐	0474	0479	Tenths	0478	Tenths	0480	Tenths	0476	Tenths	0477	Tenths
		I.D.										
		0900	0905	Tenths	0904	Tenths	0906	Tenths	0902	Tenths	0903	Tenths
a. Sweet corn	☐	I.D.										
		0910	0915	Tenths	0914	Tenths	0916	Tenths	0912	Tenths	0913	Tenths
b. Tomatoes in the open	☐	I.D.										
		0920	0925	Tenths	0924	Tenths	0926	Tenths	0922	Tenths	0923	Tenths
c. Lettuce and romaine	☐	I.D.										
		0390	0395	Tenths	0394	Tenths	0396	Tenths	0392	Tenths	0393	Tenths
d. Potatoes – Exclude sweet potatoes	☐	I.D.										
		0590	0595	Tenths	0594	Tenths	0596	Tenths	0592	Tenths	0593	Tenths
14. All berries	☐	I.D.										
		0410	0415	Tenths	0414	Tenths	0416	Tenths	0412	Tenths	0413	Tenths
15. Land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees	☐	I.D.										
16. All other crops grown in the open and not listed – Include horticultural crops grown in the open (*Note: Horticultural crops grown under protection will be reported in a later section.*) Specify below ✉		0420	0425		0424		0426		0422		0423	
0419	☐	I.D.										
		0430	0435		0434		0436		0432		0433	
17. Pastureland, all types	☐	I.D.										

[1] On-farm water source includes recycled water and reclaimed water from on-farm livestock operations.
[2] Off-farm water supplies may include water purchased from the U.S. Bureau of Reclamation; a State, county, or local district; mutual, private, cooperative, or neighborhood ditches; or commercial or municipal water systems.

21303110

SECTION 11 IRRIGATION AREA, METHODS, AND WATER APPLIED TO HORTICULTURAL CROPS GROWN IN THE OPEN IN 2013

1. Were any irrigated floriculture, nursery, sod, propagative materials, Christmas trees, or other horticultural crops grown in the open (including natural shade) on this operation in 2013?

0751 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 13

2. Report total acres and irrigated acres for horticultural crops grown in the open (including natural shade). . . . . None ☐

Acres in the Open				
Total Acres	Tenths	Irrigated Acres	Tenths
0737		0738	

3. For horticultural crops in the open, enter the total acres and irrigated acres by horticultural crop category on this operation in 2013.

HORTICULTURAL CROPS IN THE OPEN	None	Total Acres	Tenths	Irrigated Acres	Tenths
a. Floriculture and bedding crops.	☐	0739		0740	
b. Nursery crops.	☐	0741		0742	
c. Sod.	☐	0743		0744	
d. Propagative materials.	☐	0745		0746	
e. Christmas trees and short rotation woody crops	☐	0747		0748	
f. Other horticultural crops - Specify ✉ 1010 [ ] . . .	☐	0749		0750	

4. For horticultural crops in the open, report area irrigated or watered in 2013 by method used. If more than one method was used on the same area, report for all methods that apply. Report quantity of water in the unit or units of measure most often used on this operation. If total quantity of water (column 2a) and the unit of measure (column 2b) are known, then skip column 3.

IRRIGATION METHODS	None	1	2			3		
		Total Acres Irrigated or Watered (Tenths)	a. Quantity of Water Applied	b. Unit of Measure [Enter unit code] 1 Acre Feet 2 Gallons 3 Inches/Acre	OR	a. Average Flow Rate (Gallons per Minute) (Tenths)	b. Number of Hours per Week Used in 2013	c. Number of Weeks Used in 2013
a. Hand watered.	☐	0796	0797	0798		0799	0800	0801
b. Gravity irrigation.	☐	0802	0803	0804		0805	0806	0807
c. Sprinkler.	☐	0808	0809	0810		0811	0812	0813
d. Drip, trickle, or low-flow micro irrigation	☐	0814	0815	0816		0817	0818	0819
e. Subirrigation (including hydroponic). . .	☐	0820	0821	0822		0823	0824	0825

21303128

SECTION 12 IRRIGATION OF HORTICULTURAL CROPS GROWN IN THE OPEN BY WATER SOURCE IN 2013

1. For each method used to irrigate or water horticultural crops in the open, report water sources by percent of source applied. If more than one source was used, report all that apply. For example, if the only source for hand-watered crops was ground water, then report 100 percent in column 1. If this operation used gravity irrigation and half of the water came from ground water and half came from on-farm surface water, then report 50 percent in column 1, row b and 50 percent in column 2, row b.

IRRIGATION METHODS	None	Water Source: 1 Ground Water from Wells (Percent)	2 On-Farm Surface Water (Percent)	3 Off-Farm Water (All Suppliers) (Percent)	Total
		0832	0833	0834	
a. Hand watered	☐				100%
		0835	0836	0837	
b. Gravity irrigation	☐				100%
		0838	0839	0840	
c. Sprinkler	☐				100%
		0841	0842	0843	
d. Drip, trickle, or low-flow micro irrigation	☐				100%
		0844	0845	0846	
e. Subirrigation (including hydroponic)	☐				100%

For each irrigation method used, columns 1 + 2 + 3 must equal 100 percent.

21303136

SECTION 13 IRRIGATION AREA, METHODS, AND WATER APPLIED TO HORTICULTURAL CROPS GROWN UNDER PROTECTON IN 2013

1. Were any irrigated nursery, greenhouse, floriculture, mushrooms, propagative materials, or other horticultural crops grown under protection on this operation in 2013? Include horticultural crops grown under glass, rigid plastic, and plastic film, including "tunnel" protection and hoop houses.

0627 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 15

2. Report total area and irrigated area for horticultural crops grown under protection . . . . . None ☐

Square Feet Under Protection			
Total Area		Irrigated Area	
0628		0629	

3. For horticultural crops under protection, enter the total area and irrigated area by horticultural crop category on this operation in 2013.

HORTICULTURAL CROPS UNDER PROTECTION	None	Total Area (Square Feet)		Irrigated Area (Square Feet)	
a. Floriculture and bedding crops	☐	0630		0631	
b. Nursery crops	☐	0632		0633	
c. Propagative materials	☐	0636		0637	
d. Food crops grown under protection	☐	0638		0639	
e. Mushroom crops	☐	0640		0641	
f. Other horticultural crops - Specify ✉ 1011 _____ . . .	☐	0642		0643	

4. For horticultural crops under protection, report area irrigated or watered in 2013 by method used. If more than one method was used on the same area, report for all methods that apply. Report quantity of water in the unit or units of measure most often used on this operation. If total quantity of water (column 2a) and the unit of measure (column 2b) are known, then skip column 3.

IRRIGATION METHODS	None	1	2		OR	3		
		Total Area Irrigated or Watered (Square Feet)	a. Quantity of Water Applied	b. Unit of Measure [Enter unit code] 1 Acre Feet 2 Gallons 3 Gallons/Sq Ft 4 Inches/Sq Ft		a. Average Flow Rate (Gallons per Minute) Tenths	b. Number of Hours per Week Used in 2013	c. Number of Weeks Used in 2013
a. Hand watered	☐	0701	0702	0703		0704	0705	0706
b. Gravity irrigation	☐	0707	0708	0709		0710	0711	0712
c. Sprinkler	☐	0713	0714	0715		0716	0717	0718
d. Drip, trickle, or low-flow micro irrigation	☐	0719	0720	0721		0722	0723	0724
e. Subirrigation (including hydroponic) . . .	☐	0725	0726	0727		0728	0729	0730

21303144

SECTION 14 IRRIGATION OF HORTICULTURAL CROPS GROWN UNDER PROTECTION BY WATER SOURCE IN 2013

1. For each method used to irrigate or water horticultural crops under protection, report water sources by percent of source applied. If more than one source was used, report all that apply. For example, if the only source for hand-watered crops was ground water, then report 100 percent in column 1. If this operation used gravity irrigation and half of the water came from ground water and half came from on-farm surface water, then report 50 percent in column 1, row b and 50 percent in column 2, row b.

IRRIGATION METHODS	None	Water Source: 1 Ground Water from Wells (Percent)	2 On-Farm Surface Water (Percent)	3 Off-Farm Water (All Suppliers) (Percent)	Total
		0646	0647	0648	
a. Hand watered	☐				100%
		0649	0650	0651	
b. Gravity irrigation	☐				100%
		0652	0653	0654	
c. Sprinkler	☐				100%
		0655	0656	0657	
d. Drip, trickle, or low-flow micro irrigation	☐				100%
		0658	0659	0660	
e. Subirrigation (including hydroponic)	☐				100%

For each irrigation method used, columns 1 + 2 + 3 must equal 100 percent.

21303151

SECTION 15 EXPENDITURES FOR IRRIGATION FACILITIES AND EQUIPMENT ON THIS OPERATION IN 2013

I.D. CODES

PRIMARY PURPOSE OF EXPENDITURE	PRIMARY SOURCE OF FUNDING ASSISTANCE
1 = New expansion	1 = No funding assistance
2 = Water conservation	2 = EQIP
3 = Energy conservation	3 = Other USDA financial assistance
4 = Scheduled replacement or maintenance	4 = Non-USDA financial assistance

Report the 2013 expenditure cost, acres affected (rounded to the nearest acre), primary purpose of expenditure, and primary source of funding assistance by expenditure category. Include the portion of the expenditures made by or shared with others (landlords or government agencies), including programs such as Environmental Quality Incentive Program (EQIP). Refer to the table above for I.D. codes for the last two columns.

EXPENDITURE TYPE	None	Total Cost of Expenditure (Include amount financed)	Irrigated Acres Affected by Expenditure (Acres)	Primary Purpose of Expenditure (Enter I.D. code from above.)	Primary Source of Funding Assistance (Enter I.D. code from above.)
1. Purchase of new or replacement irrigation equipment and machinery – Include sprinklers, pipes, siphons, nozzles, pumps, engines, motors, filtration equipment, etc. Exclude computers, computer control panels, and software	☐	0511 $ .00	0514	0512 I.D.	0513 I.D.
2. New well construction or deepening of existing wells – Include drilling costs, cost of casing, and any costs to prepare well for installation of pump. Exclude cost of pumps or motors	☐	0515 $ .00	0518	0516 I.D.	0517 I.D.
3. Construction or improvement of permanent storage and distribution systems – Include dams, ponds, reservoirs, permanent ditches, canals, flumes, etc.	☐	0519 $ .00	0522	0520 I.D.	0521 I.D.
4. Computers, control panels, computer controlled valves, software, and software controlled hardware for irrigation water management	☐	0544 $ .00	0547	0545 I.D.	0546 I.D.
5. Clearing or leveling non-irrigated land for new irrigation acres (the primary purpose is expansion of irrigation acres)	☐	0548 $ .00	0526		0549 I.D.
6. Land leveling of previously irrigated land (the primary purpose cannot be new expansion)	☐	0556 $ .00	0559	0557 I.D.	0558 I.D.

21303169

SECTION 16 BARRIERS TO IMPLEMENTING IMPROVEMENTS TO REDUCE ENERGY USE OR CONSERVE WATER IN THIS OPERATION'S IRRIGATION SYSTEM DURING THE PAST FIVE YEARS

1. Did any of the following prevent you from implementing improvements that would have reduced energy and/or conserved water in your irrigation system during the past five years? Mark (X) all that apply –

1070 ☐ Investigating improvements is not a priority at this time

1071 ☐ Risk of reduced yield or poorer quality crop from not meeting water needs

1072 ☐ Physical field or crop conditions limit system improvements

1073 ☐ Improvements will reduce costs, but not enough to recover implementation costs

1074 ☐ Cannot finance improvements

1075 ☐ Landlord(s) will not share cost of improvements

1076 ☐ Uncertainty about future availability of water

1077 ☐ Will not be farming this operation long enough to justify new improvements

1078 ☐ Improvements will increase management time or cost

SECTION 17 WATER MANAGEMENT PRACTICES FOR GRAVITY IRRIGATION SYSTEMS IN THE OPEN

1. Did this operation use gravity irrigation systems to irrigate any acres in the open on this operation (Section 8, item 1) in 2013?

0403 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 18

2. On how many acres in the open did you use the following practices?

	None	Number of Acres
a. Capture irrigation runoff in tailwater pits, restrict runoff by diking end of the field, limit irrigation set times or number of irrigations, or irrigate only alternative rows.	☐	0404
b. Use a surge-flow or cablegation system, applying mulch or other types of row covers	☐	0405
c. Use precision-leveling or zero-grading.	☐	0406
d. Shorten the furrow length; use water-soluble polyacrylamide (PAM); or use special furrowing practices such as wide-spaced bed furrowing, compacted furrows, or furrow diking.	☐	0409

21303177

SECTION 18 IRRIGATION PRACTICES IN 2013

1. How did you decide when to schedule water use in 2013? Mark (X) all that apply –

1020 ☐ Condition of crop (observation or experience)

1021 ☐ Feel of the soil

1022 ☐ Use of soil moisture-sensing devices (moisture blocks, tensiometers, capacitance, other electronic sensors)

1023 ☐ Use of plant moisture-sensing devices such as pressure (chamber) bombs or infrared (IR) thermometer

1024 ☐ Use of irrigation scheduling service, including commercial and government

1025 ☐ Reports on daily crop-water evapo-transpiration (ET) use (Internet, newspapers, radio, TV, fax, or email)

1026 ☐ When water was delivered or available by irrigation water supplier (no choice by water user)

1027 ☐ Personal calendar schedule

1028 ☐ Computer simulation models (not from a commercial service)

1029 ☐ When neighbors began to irrigate

2. Did you have to discontinue irrigation during 2013 long enough to affect crop yields?

0669 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 19

a. What were the reasons for discontinuing irrigation? Mark (X) all that apply –

1030 ☐ Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)

1031 ☐ Shortage of ground water (lowering water level of wells or depletion of ground water)

1032 ☐ Irrigation equipment failure

1033 ☐ Energy price increases or energy shortage

1034 ☐ Water salinity too high

1035 ☐ Loss of water rights not due to voluntary transfers

1036 ☐ Cost of purchased water

1037 ☐ Other – Specify → 1038 _____

SECTION 19 LABOR USED FOR IRRIGATION ON THIS OPERATION IN 2013

1. Did you have any paid labor for the irrigation portion of your operation in 2013?

0731 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 20

	None	Total Hours of Paid Irrigation Labor	Average Hourly Wage
a. Report total hours and average hourly wage for hired irrigation labor. (Exclude contract labor.)	☐	0732	0733 $ ____ Cents

	None	Total Expenses for Contract Irrigation Labor
b. Report contract irrigation labor expenses on this operation in 2013	☐	0788 $ ____ .00

21303185

SECTION 20 SOURCES OF IRRIGATION INFORMATION

1. What sources of information does this operation rely on for guidance in reducing irrigation costs or to conserve water used for irrigation? Mark (X) all that apply –

1040 ☐ Extension agents or university specialists

1041 ☐ Private irrigation specialists or crop consultants hired by owner or operator

1042 ☐ Irrigation equipment dealers

1043 ☐ Local irrigation district employees or others hired by the water supplier

1044 ☐ Government specialists from the Natural Resources Conservation Service, local conservation district, Bureau of Reclamation, or other Federal or State agencies

1045 ☐ Media reports or information in the press

1046 ☐ Neighboring farmers

1047 ☐ Electronic information services (Internet, DTN, Internet links to private or public data sources, etc.)

SECTION 21 TECHNICAL AND FINANCIAL ASSISTANCE RECEIVED DURING THE PAST FIVE YEARS

1. Has this operation made irrigation and/or drainage improvements above regular maintenance in the **past five years**?

0209 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 23

2. Did you receive any technical or financial assistance for these irrigation and/or drainage improvements?

0211 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 23

a. From which of the following sources did you receive technical or financial assistance for these improvements? Mark (X) all that apply –

Source of Assistance	Technical Assistance	Financial Assistance
USDA programs for water conservation and environmental improvements (CTA, EQIP, AWEP, WHIP, CIG)	0215 ☐	0216 ☐
Other USDA programs for stewardship (CSP) or easements (CRP, WRP, GRP, FRPP)	0217 ☐	0218 ☐
Non-USDA Federal programs (Bureau of Reclamation, EPA, or other programs)	0219 ☐	0235 ☐
State programs (including CREP), local water management, or water supply districts	0236 ☐	0237 ☐
Private businesses such as equipment dealers, bankers, or lenders	0238 ☐	0239 ☐

21303193

SECTION 22 IRRIGATED LAND IN 2012

Complete this section ONLY if you DID NOT irrigate any land in 2013

1. Was any land irrigated on this operation in 2012?

0528 1 ☐ **Yes** - Continue 3 ☐ **No** - Go to Section 23

2. What were the reasons for not irrigating in 2013? Mark (X) all that apply –

1050 ☐ Sufficient soil moisture – no irrigation needed

1052 ☐ Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)

1053 ☐ Shortage of ground water (lowering water level of wells or depletion of ground water)

1054 ☐ Irrigation uneconomical due to high fuel and power costs and/or low commodity prices

1055 ☐ Loss of water rights (not due to voluntary transfers)

1056 ☐ Sold or leased water rights or annual water allocation

1057 ☐ Sold or leased irrigated land or irrigated area under protection to others and did not irrigate during 2013

1058 ☐ Restrictions on water use

1059 ☐ Converted to non-agricultural use

1060 ☐ Converted to an agricultural enterprise not requiring irrigation

1061 ☐ Available surface water too salty

1062 ☐ Other - Specify ✉

1063 _____

3. Do you consider your discontinuance of irrigation to be permanent?

0530 1 ☐ **Yes** 3 ☐ **No**

SECTION 23 VALUE OF SALES IN 2013

1. What was the gross value of all agricultural products sold from this operation in 2013 including landlord's share? Mark (X) only one –

0980 1 ☐ $0 - $9,999 2 ☐ $10,000 - $24,999 3 ☐ $25,000 - $49,999 4 ☐ $50,000 - $99,999

5 ☐ $100,000 - $249,999 6 ☐ $250,000 - $499,999 7 ☐ $500,000 - $999,999 8 ☐ $1,000,000 and over

		Percent
2. What percent of total sales were from **irrigated** crop sales, including irrigated horticultural crops?	0981	
3. What percent of total sales were from **non-irrigated** crop sales and livestock sales?	0982	
		100%

SECTION 24 PERSON COMPLETING THIS FORM – Please print

1092 Name _____

9911 Area Code and Phone Number ___ – ___ – ____

9910 Date (MM DD YY) ____ ____ ____

Survey Results: To receive the complete results of this survey on the release date, go to www.agcensus.usda.gov.

Would you rather have a brief summary mailed to you at a later date? . . . . . 0099 1 ☐ **Yes** 3 ☐ **No**

Thank you for your response

OFFICE USE

Response		Respondent		Mode		Enum.	Eval.	R. Unit	Change	Optional Use			
1-Comp 2-R 3-Inac	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-Mail 2-Tel 3-Face-to-Face	9903	0098	0100	0921	0785	0407	0408	9906	9916
S/E Name													

21303201

FORM 13-A621(I) (09-23-2013)

INSTRUCTION SHEET
2013 FARM AND RANCH IRRIGATION SURVEY (FRIS)
Your report is due February 10, 2014

Completing the 2013 FRIS Questionnaire

Make all entries clear and easy to read. Use a **blue** or **black** ball point pen.

General
Refer to the instructions below for completing your questionnaire. The enclosed census follow-on questionnaire was mailed to producers and growers throughout the United States. Because it is meant for use in all parts of the country, it may contain items and inquiries which do not apply to your operation. In this case, mark the "No" or "None" box and go on to the next item or section.

Partial Year Operation
If you stopped farming during 2013, complete the questionnaire for the portion of 2013 that you did farm. Write "Stopped farming in 2013" and the date you stopped farming below the address area. Mail the completed questionnaire in the return envelope.

If You Receive More Than One Questionnaire for the Same Operation
Return any duplicate questionnaire(s) in the same envelope with the completed questionnaire. In the address area of the questionnaire you complete, write the 11-digit ID number from the label of the extra questionnaire(s).

Partnership Operations
Complete only ONE questionnaire for a partnership operation and include all partners' shares on the same questionnaire. If two or more questionnaires were received for the partnership, see instruction on "If You Receive More Than One Questionnaire for the Same Operation" above.

How to Enter Your Responses on the Questionnaire
Please enter your answers in the spaces provided and in the units requested, i.e., number of acres, dollars, percent, etc. Mark all applicable Yes/No boxes with an "X".

Instructions by Section

Complete Sections 1 and 2 of the questionnaire. If you did not irrigate or water any cropland (including nursery and greenhouse acreage in the open and under protection), pastureland, or rangeland in 2013, go to Section 22 on the back page and complete the remainder of the questionnaire.

Section 1 – Acreage in 2013
Report land owned, rented, or used by the respondent, spouse, partnership, corporation, or organization identified on the questionnaire. If you did not operate any land in 2013, go to Section 24 on the back page and complete the remainder of the questionnaire.

Include all land, regardless of location or use; cropland, pastureland, rangeland, woodland, idle land, **greenhouses or other area under protection**, Conservation Reserve Program (CRP), Wetlands Reserve Program (WRP), Farmable Wetlands Program (FWP), Conservation Reserve Enhancement Program (CREP), and house lots. All responses in this section should be rounded to whole acres. Area under protection less than one acre should be reported as one acre. **Exclude** land used under a grazing permit.

Item 1 - Report all land owned in 2013 by you and/or your spouse, or by the partnership, corporation, or organization named on the questionnaire. Include all fields and tracts of cropland, pastureland, woodland, wasteland, idle land, and farmsteads.

Item 2 - Report all land rented or leased from others on shares, cash rent, used rent-free, in exchange for services, for taxes, etc., regardless of location, even if used for part of the year. **Exclude** land used on a per head basis under a grazing permit or animal unit (AUM) basis.

Item 3 - Report all land rented or leased to others regardless of the purpose. Include land that was rented and subleased to others.

Item 4 - The acres in item 4, **Box A**, should equal item 1 plus item 2 minus item 3. All responses to this questionnaire should refer to these **total acres in this operation**. It is important that this number is correct as it is used to establish consistency throughout the questionnaire. The acreage of this operation must equal the acreage reported in Section 2, item 4, column 1, **Box B**.

Section 2 – Land in 2013
Account for total acres in **this operation** in column 1 and irrigated land in **this operation** in column 2. If the same land had more than one use in 2013, report that land only once in the first use that applies. Irrigation refers to the one or more applications of water to land or crops by any artificial or controlled means.

In addition to fully irrigated land, report as irrigated any land to which partial, supplemental, or semi-irrigation was applied in column 2. Also include any acreage which received only preplant irrigation (watered before planting). Hayland, pastureland or rangeland should be reported as irrigated if spring flood water was spread by man-made canals, ditches, spreader dikes, pipes, or other water works. Include acres where lagoon wastewater from livestock operations was distributed by a sprinkler or flood system.

For conservation program land, if the operator was allowed to cut conservation program land for hay, then this land should be considered cropland harvested; if it was grazed it is other pasture and grazing land. Except for disaster designation uses, almost all conservation program land will be reported in item 1b, cropland not harvested or grazed.

Item 1a - Include as cropland harvested: hay and forage, land in groves, vineyards, berries, orchards, Christmas trees (whether harvested in 2013 or not), short rotation woody crops, nursery and greenhouse crops.

For winter wheat, report the 2013 acres harvested.

For double cropped acres if more than one crop was harvested from the same land in 2013, report those acres only once as cropland harvested.

Item 1b - Include cropland used for cover crops, cropland on which all crops failed, idle cropland, cropland in summer fallow, and cropland in government programs, including conservation program land unless used for grazing, hay, or forage. Land on which sugarcane and pineapples were grown but not harvested in 2013, are reported as other cropland.

Item 2a - Exclude land used under a grazing permit.

Item 2b - Report woodland pastured.

Item 2c - Include any pastured land other than cropland and woodland pastured. Include rotation pasture and grazing land that could have been used for crops without additional improvements.

Item 3 - Any land that does not fit into one of the above categories. Include land in roads, buildings, farmsteads, woodland not pastured, and wasteland.

Item 4 - This should equal the sum of all land uses reported in items 1 through 3. Also, **Box B** acres must equal acres in "this operation" reported in Section 1, item 4, **Box A**. Anyone who irrigated any land in 2013 should complete the entire report form.

Item 5 - This question helps determine if this operation irrigated any area in the open or under protection in 2013. If the answer to this question is 'Yes', then continue completing the form. If you did not irrigate any area in the open or under protection, check the 'No' box and go to Section 22 on the back page.

Item 6 - Report the state with the largest amount of irrigated land for "this operation." If you irrigate in more than one state and the acres irrigated happens to be the same, then report the state that includes your farmstead.

Section 3 – Ground Water From Wells Used on This Operation in 2013

Water usage for this survey will be published in acre-feet. An acre-foot is the quantity of water needed to cover one acre to the depth of one foot, or 326,000 gallons. Ground water is water from a well or wells located on this operation.

Item 1 - Report if this operation irrigated any land with ground water from wells on this operation at any time during 2013.

Item 2 - Report acres in the open irrigated with ground water from wells and the estimated quantity of ground water used in one of the following units:

- total acre-feet; or
- total gallons; or
- average inches applied per acre

Item 3 - Report the area under protection irrigated with ground water in square feet. Report the area only once, regardless of how many crops were grown for sale from the same area.

Item 4 - Report the total number of wells used on this operation in 2013.

Item 4a - Report the number of free-flowing (artesian) wells used in 2013. Free flowing wells do not require pumping the water to the surface. Water flows to the surface under natural pressure. These are most commonly found in Florida and some western states.

Item 4b - Report the number of wells reported in item 4 above that used backflow prevention devices (check valves) in 2013. Report the number of acres and area under protection irrigated in 2013 with water pumped from wells with backflow prevention devices.

Item 4c - Report how many wells reported in item 4 above used flow meters or flow measuring devices. Report the number of acres and area under protection irrigated in 2013 with water from wells with flow measurement devices.

Item 5 - Report the well characteristics for up to 3 primary wells pumped on this operation in 2013. **Note**: The 3 primary wells should include those wells with the greatest quantity of water pumped in 2013. Report the characteristics for each individual well even if these values are similar across wells. If less than 3 wells were pumped in 2013, then only report for those wells used.

Item 5a - If you used more than 3 wells in 2013, then for all other wells (excluding the 3 primary wells), report the average value for well characteristics.

Item 6 - Change in depth to water is defined as a change in the depth of water from the well-head to the water table level that has occurred over the last five years prior to 2013.

Section 4 – On-Farm Surface Water Used on This Operation in 2013
On farm surface water is a water supply not controlled by a water supply organization and includes water from a stream, drainage ditch, lake, pond, spring, or reservoir on or adjacent to your farm.

Item 1 - Report if this operation used any on-farm surface water including recycled and reclaimed water. For this survey, recycled water is the reuse of irrigation water that was previously used to irrigate a crop on the operation. Reclaimed water is treated wastewater used for irrigation.

Item 2 - Report acres in the open on this operation irrigated with on-farm surface water and the estimated quantity used in one of the following units:
- total acre-feet; or
- total gallons; or
- average inches applied per acre

Item 3 - Report the total area under protection irrigated with on-farm surface water in square feet. Report the area only once, regardless of how many crops were grown for sale from the same area.

Item 4 - Report whether this operation used recycled water to irrigate any crops in 2013.

Item 4a - Report the area on which one or more applications of recycled water for irrigation were made in 2013. Report the acres only once even if multiple applications were made to the same acreage.

Item 5 - Report whether this operation used reclaimed water to irrigate any crops in 2013.

Item 5a - Report the area on which one or more applications of reclaimed water for irrigation were made in 2013. Report the acres only once even if multiple applications were made to the same acreage.

Item 5b - Report how much reclaimed irrigation water was used on this operation in 2013. Report the quantity of reclaimed water in acre-feet or total gallons.

Section 5 – Off-Farm Water From All Suppliers Used on This Operation in 2013
Off-farm surface water is surface or ground water from U.S. Bureau of Reclamation, other Federal agencies, or other suppliers.

Item 1 - Report if this operation used any water from off-farm sources.

Item 2 - Report acres in the open on this operation irrigated with off-farm water and the estimated quantity used in one of the following units:
- total acre-feet; or
- total gallons; or
- average inches applied per acre

Item 3 - Report the total area under protection irrigated with off-farm water in square feet. Report the area only once, regardless of how many crops were grown for sale from the same area.

Item 4 - Report if this operation received any off-farm water and total cost, if any was purchased. Report in whole dollars.

Item 5 - Report the supplier of off-farm water, if any was received.

Item 6 - Report whether this operation used reclaimed water to irrigate any crops in 2013.

Item 6a - Report the area on which one or more applications of reclaimed water for irrigation were made in 2013. Report the acres only once even if multiple applications were made to the same acreage.

Item 6b - Report how much reclaimed irrigation water was used on this operation in 2013. Report the quantity of reclaimed water in acre-feet or total gallons.

Item 6c - Identify the source(s) of reclaimed water used on this operation by marking an 'X' in all the sources that apply.

Section 6 – Pumps, Other Than Well Pumps, Used For Irrigation on This Operation in 2013
These are pumps that were used for pumping surface water from rivers and streams, irrigation channels, ponds and other water holding systems. Tailwater pits hold water that was recovered from irrigated land for recycling.

Some irrigation systems using water from wells may also have pumps in places other than their well pumps to provide additional lift, especially on farms with large distribution systems or irregular terrain. These pumps are often referred to as booster pumps. Include these booster pumps in Section 6.

Vertical lift refers to the average surface-level feet-of-lift the pumps must raise the water in order to distribute the water through the field irrigation system. Discharge capacity refers to average pumping capacity in gallons per minute (GPM). Discharge operating pressure refers to the average operating pressure in pounds per square inch at the point of discharge.

Section 7 – Energy Expense By Power Source for All Well and Other Irrigation Pumps Used On This Operation in 2013

For each energy source report the number of well pumps and other pumps, the cost of the energy used to power pumps (include the landlord's share of pumping costs), and the number of acres irrigated by water source. The sum of acres irrigated across all energy types may be less than the total acres irrigated for the operation reported in Section 2, item 4, column 2, Box C. The difference should equal those acres irrigated using no pumps to supply water to the field.

Section 8 – Method of Water Distribution in Fields in the Open on this Operation in 2013

This section refers to the method used to distribute irrigation water. Report the acres of land irrigated by each of the distribution systems listed. If the same land was irrigated by more than one method, then report acres irrigated by each method used. **Note:** Do not report information for the delivery system used to convey water from the source to the field. Report the method only for the field distribution system.

Item 1 - Gravity irrigation refers to the free flowing application of water across a field. The water is distributed across a field using either pipes or open ditches near the head of the field from which water is released to flow down furrows or to flood the field.

Item 1a - Row crops are generally irrigated by water flowing down furrows.

Item 1b - Report the controlled flooding acreage for crops such as rice or cranberries which are flooded across the entire field with the water contained within borders or basins.

Item 1c - Uncontrolled flooding is often used to water pasture or rangeland. Water is directed to the area by artificial or controlled means but there are no furrows or borders within the field when uncontrolled flooding is used.

Item 1d - Report acreage here if not reported in any of the above gravity system categories.

Item 2 - Sprinkler irrigation is separated into six categories: center pivot, linear move tower, solid set and permanent systems, mechanical move systems, hand move systems, and other sprinkler systems. Use nozzle pressure for the pressure categories.

Item 2a - A center pivot system uses a boom half the width of the field. It is anchored at the center of the field and sweeps in a circle.

Item 2b - Linear move tower systems and other linear continuous move drive systems are self-propelled systems that travel in straight lines across the field.

Item 2c - Report for solid set and permanent systems. Exclude low-flow micro systems.

Item 2di - Mechanical move systems include side roll, wheel move, other mechanical move systems, and other discrete move systems.

Item 2dii - Big gun or traveler systems use large pulsating sprinklers and travel across the area being watered.

Item 2e - Hand move systems are any non-self-propelled system which must be moved manually.

Item 2f - Report acreage here if not reported in any of the above sprinkler system categories.

Item 3 - Drip, trickle or low-flow micro irrigation water is generally distributed by tubes or tapes which meter out small amounts of water at low pressure.

Item 3a - Report acres on which on or above ground surface drip irrigation was used.

Item 3b- Report acres on which sub-surface or root zone, drip was used.

Item 3c - Report acres on which low-flow micro sprinklers were used. This refers to micro sprinklers that apply water at low pressure and are not self-propelled or easily moved.

Item 3d - Report acreage here if not reported in any of the above drip, trickle, or low-flow system categories.

The total acres, by method of water distribution, should be equal to or greater than Section 2, column 2, item 4, total acres irrigated, Box C. Every acre reported as irrigated in Section 2 needs to be reported by method of irrigation in Section 8. If you use multiple methods of water distribution for the same acres, this sum may be larger than item code 0042.

Section 9 – Acres Harvested in the Open and Crop Yields on This Operation in 2013

Report the acres of each crop harvested and its corresponding average yield per acre separately for irrigated acres and for non-irrigated acres. Report acres of each crop harvested, even when multiple crops have been harvested off the same land. In addition, for each irrigated crop harvested, report the estimated average quantity of water applied per acre for the 2013 irrigation season. Report water applied in average acre-feet per acre or in inches per acre (but not both). Acre-feet per acre should be reported to the nearest tenth of a foot (for example, 1.6 or 2.3 acre-feet per acre), while acreinches per acre should be reported to the nearest whole inch (for example, 19 or 28 inches per acre).

The sum of irrigated acres harvested in Section 9 should be equal to or greater than Section 2, item 4, column 2, Box C, total acres irrigated.

Any harvested crop grown in the open not pre-listed should be entered under item 19 'all other crops.' Report the crop name in the 'specify' area. **Note**: For winter wheat, report the acres harvested in 2013.

Section 10 – Primary Method of Field Water Distribution, Water Source, and Acreage of Chemigation in Irrigation Water for Crops Irrigated in the Open in 2013

For each crop with irrigated acres harvested reported in Section 9, report the primary type of irrigation system in the first column by selecting the appropriate water distribution ID code from the water distribution ID code list above the table. Report the number of acres irrigated from each water source (ground, on-farm surface, and off-farm suppliers).

Then, for each irrigated crop, report the number of acres that were irrigated applying chemigation, that is, the application of fertilizers or pesticides through the irrigation water. Report the acres of commercial fertilizer application and acres for pesticide application separately.

Note: For each crop, an irrigated acre harvested may be reported in both the fertilizer and pesticide columns. Therefore, for each crop, the sum of chemigation acres may total more than the corresponding irrigated harvested acres reported for that crop in column 1 of section 9.

Report the acres of the irrigated crop by water source.

Section 11 – Irrigation Area, Methods, and Water Applied to Horticultural Crops in the Open in 2013

Report whether this operation irrigated any nursery, greenhouse, floriculture, mushrooms, propagative materials, or other horticultural crops grown in the open in 2013. If any horticultural crops on your operation were grown in the open, then complete this section.

Item 2 **-** Report the total acres and irrigated acres for horticulture crops grown in the open to the nearest tenth acre. Report the acres only once even when multiple crops were harvested off the same land. Irrigation refers to the application of water to land or crops by any artificial or controlled means.

Item 3 **-** Report acres for each horticulture crop listed to the nearest tenth acre. Report acres of each crop harvested, even when multiple crops were harvested off the same land. For example, if annual bedding plants and a nursery crop were harvested from the same 2 acres, enter 2.0 acres in the Floriculture and bedding crops category and 2.0 acres in the Nursery crop category. For each category, enter the total acres grown in the open and irrigated acres.

Report for each crop category grown on this operation the total acres in the open and irrigated acres in the appropriate category:

a. *Floriculture and bedding crops* - bedding/garden plants, cut flowers and cut florist greens, indoor foliage plants, potted flowering plants
b. *Nursery crops* - ornamentals, shrubs, shade trees, fruit and nut trees, vines, palms, ornamental grasses, evergreens not for Christmas trees, deciduous trees and shrubs, aquatic plants
c. *Sod*
d. *Propagative materials* - bulbs, corms, rhizomes, and tubers; cuttings, seedlings, linings, and plugs; flower and vegetable seeds; tobacco transplants; vegetable transplants
e. *Christmas trees and short rotation woody crops* - A short rotation woody crop is a tree that grows from seed to a mature tree in 10 years or less.
f. *Other* - If more than one crop was grown for this category, report the primary type of crop in the specify area.

Item 4 **-** Report the area irrigated or watered for horticultural crops grown in the open in 2013 by irrigation method used on this operation. If more than one method was used, report area in all methods that apply. Report quantity of water in the unit of measure most used for each method. If the total quantity of water, column 2a, and the unit of measure, column 2b, is known, then skip column 3.

Report for the following irrigation methods:

a. *Hand Watered*
b. *Gravity Irrigation* - refers to the free-flowing application of water.
c. *Sprinkler* - Exclude hand-held sprinklers.
d. *Drip, trickle, or low-flow micro irrigation* - the water is distributed down the rows by tapes which meter out small amounts of water at low pressure near the plant's roots.
e. *Subirrigation* - this is sometimes referred to as water seepage. It is used to maintain a water table at a predetermined depth. Normally these systems are permanently in place below the rootline. Water is usually applied by using emitters. Include hydroponic in this category.

The total area reported, by method used, should be equal to or greater than item 2, irrigated area, code 0738.

Section 12 – Irrigation of Horticultural Crops Grown in the Open by Water Source in 2013
Report the water source percentage for each irrigation method listed. The percentage for ground water, on-farm water, and off-farm water should add to 100% for each method (row).

Section 13 – Irrigation Area, Methods, and Water Applied to Horticultural Crops Under Protection in 2013
Report whether this operation irrigated any nursery, greenhouse, floriculture, mushrooms, propagative materials, or other horticultural crops grown under protection. Under protection includes horticultural crops grown under glass, rigid plastic, plastic film, including "tunnel" protection and hoop houses. If any horticultural crops on your operation were grown under protection, then complete this section.

Item 2 - Report the total area and irrigated area under protection in square feet. Report the area only once, regardless of how many crops were grown for sale from the same area. Irrigation refers to one or more applications of water to land or crops by any artificial or controlled means.

Item 3 - Report the area irrigated in square feet for each horticultural category listed. Report the area of each horticulture crop, even when multiple crops were harvested off the same land. For example, if two crops of annual bedding plants were grown from 1,000 square feet, enter 1,000 in the Floriculture and Bedding Crops category. If 500 square feet of food crops were also grown in the same area, then also report 500 in the Food crops grown under protection category. For each category, enter the total area under protection that was irrigated.

Report crops grown on this operation in the appropriate category:

a. *Floriculture and bedding crops* - Bedding/garden plants, cut flowers and cut florist greens, indoor foliage plants, potted flowering plants
b. *Nursery crops* - Ornamentals, shrubs, shade trees, fruit and nut trees, vines, palms, ornamental grasses, evergreens not for Christmas tree production, deciduous trees and shrubs, aquatic plants
c. *Propagative materials* - Bulbs, corms, rhizomes, and tubers; cuttings, seedlings, linings, and plugs; flower and vegetable seeds; tobacco transplants; vegetable transplantsd.
d. *Food crops grown under protection*
e. *Mushrooms*
f. *Other* - If more than one crop was grown for this category, report the primary type of crop in the specify area.

Item 4 - Report the area irrigated or watered for horticultural crops grown under protection in 2013 by irrigation method used on this operation.

If more than one method was used, report area in all methods that apply. Report quantity of water in the unit of measure most used for each method. If the total quantity of water, column 2a, and the unit of measure, column 2b, is known, then skip column 3.

Report for the following irrigation methods:

a. *Hand Watered*
b. *Gravity Irrigation* - refers to the free-flowing application of water.
c. *Sprinkler* - Exclude hand-held sprinklers.
d. *Drip, trickle, or low-flow micro irrigation* - the water is distributed down the rows by tapes which meter out small amounts of water at low pressure near the plant's roots.
e. *Subirrigation* - this is sometimes referred to as water seepage. It is used to maintain a water table at a predetermined depth. Normally these systems are permanently in place below the rootline. Water is usually applied by using emitters. Include hydroponic in this category.

The total area reported, by method used, should be equal to or greater than item 2, irrigated area, code 0629.

Section 14 – Irrigation of Horticultural Crops Grown Under Protection by Water Source in 2013
Report the water source percentage for each irrigation method listed. The percentage for ground water, on-farm water, and off-farm water should add to 100% for each method (row).

Definitions of Water Sources

Ground water is water from a well or wells located on this farm.

On farm surface water is a water supply not controlled by a water supply organization and includes water from a stream, drainage ditch, lake, pond, spring, or reservoir on or adjacent to your farm.

Off-farm surface water is surface or ground water from U.S. Bureau of Reclamation, other Federal agencies, or other suppliers.

Section 15 – Expenditures for Irrigation Facilities and Equipment on This Operation in 2013
For the construction and improvement categories report the cost of the expenditure in column 1, the irrigated acres affected in column 2, the primary purpose ID code of the expenditure in column 3, and the primary source ID code of the funding assistance in column 4 if any were received.

Section 16 – Barriers to Implementing Improvements to Reduce Energy Use or Conserve Water in this Operation's Irrigation System During the Past Five Years
Report any issues which prevented you from implementing improvements to existing irrigation systems during the past five years. Mark all that apply.

Section 17 – Water Management Practices for Gravity Irrigation Systems in the Open
If you reported gravity irrigation in Section 8, then complete this section. For each item a through d, report the number of gravity irrigated acres using the specific practice.

Section 18 – Irrigation Practices in 2013
Item 1 **-** Report on the method or approach used to decide when to schedule water applications in 2013. Mark all that apply.

Item 2 **-** Report in item 2 whether this operation had to discontinue irrigation in 2013 long enough to affect crop yield. Report the reason(s) if irrigation was discontinued. Mark all that apply. If "other," is marked, report the reason for discontinuing irrigation in the "specify" response area.

Section 19 – Labor Used for Irrigation on this Operation in 2013
If you paid any labor cost for the irrigation activities, report total hours and average hourly wage in item 1a and report contract labor expenses for irrigation activities in item 1b. Labor costs here should pertain only to the operation and maintenance of the irrigation system and facilities. **Include** the landlord's share of irrigation labor costs. **Exclude** cost for custom work and contract labor for harvesting.

Section 20 – Sources of Irrigation Information
Mark all that apply.

Section 21 – Technical and Financial Assistance Received During the Past Five Years
If you made irrigation and/or drainage improvements above regular maintenance in the past five years, then mark item 1 'Yes'. If you received any technical or financial assistance for these improvements, you should mark all that apply.

Section 22 – Irrigated Land in 2012
Complete this section ONLY if you did not irrigate in 2013.

This section references both 2012 and 2013 irrigation. Report in item 1 whether any land was irrigated on this operation in 2012. Report in item 2, the reasons for not irrigating in 2013. Mark all that apply in item 2 and if 'other' is marked, report the reason in the "specify" response area. In item 3, report whether the discontinuance of irrigation is permanent.

Section 23 – Value of Farm Sales in 2013
Item 1 **-** Select the appropriate category for the gross value of sales of all agricultural products sold from this operation in 2013. Agricultural products include all crops and livestock sold from this operation.

Item 2 **-** Report the percent of the total gross value of sales that were from irrigated crops.

Item 3 **-** Report the percent of the total gross value of sales that were from **non-irrigated crop** or **livestock** sales. The sum of items 2 and 3 should equal 100 percent.

Section 24 – Person Completing this Form
Please print the name of the person completing this form, the date completed, and telephone number. Please indicate if you would like a free summary of the survey results in the mail.